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THE

Gentleman's Diary,

OR THE

MATHEMATICAL REPOSITORY;

An ALMANACK

For the YEAR of our LORD 1793:

BEING THE

FIRST AFTER BISSEXTILE.

Containing many useful and entertaining Particulars, peculiarly adapted to the ingenious Gentlemen engaged in the delightful Study and Practice of the

MATHEMATICKS.

The Fifty-third ALMANACK published of this Kind; and the Forty-first of the NEW-STYLE in ENGLAND.

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The Hand of Nature on peculiar Minds
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The changeful Moor, the Circuit of the Stars,
The golden Zones of Heaven: to some she gave
To weigh the Moment of eternal Things,
Of Time, and Space, and Fate's unbroken Chain,
And Will's quick Impulse. AKENSIDE.

LONDON:
Printed for the Company of STATIONERS;
And Sold by ROBERT HORSFIELD, at their Hall in
LUDGATE-STREET. 1793.
[Price Ten Pence stitched.]

93

Four, Two of each Luminary.

Feb. 25. at night, Moon eclipsed, visible at Greenwich. Begins 9 h. 23¼ m. Middle 10 45½. End 12 6½. Digits eclipsed 6° on Moon's North Limb.

March 12. Morning. Sun eclipsed, invisible at Greenwich. Conjunction at 5 h. 57 m. in longitude 21° S. 22° 10', Moon's lat. 39' 2-3ds, eclipse central in the meridian at 5 h. 28 m. in long. 98° E. and lat. 46° ½ South.

Aug. 24. Afternoon, Moon eclipsed, invisible at Greenwich. Begins 1 h. 28 2-3ds m. Middle 2 h. 52 2-3ds m. End 4 h. 16 m. 2-3ds. Digits eclipsed 8° 41' on Moon's South Limb. Moon rises 7 h. 6 m. P.M.

Sept. 5. Sun eclipsed, visible at Greenwich in the morning. Begins 9 h. 37 m. Darkest 11 h. 8 m. ¼. End 12 h. 44 m. ¼. Digits eclipsed 9° 28' on Sun's North Limb. Moon makes the first impression on Sun's disk at 29°½ from Sun's vertex, on the right hand.

The Times for *Berwick* upon Tweed, by Mr. JOHN TODD.

Begin.	Mid.	End.	Digits.
9 h. 28 m. 2 s.	10 56 53	12 25 53	10° 15' N. Sphere.
9 28 39.	10 56 57	12 27 51	10. 9 Spheroid.

Venus will be an Evening Star till May 27, then a Morning Star to the year's end.

Jupiter will be a Morning Star till May 17; then an Evening Star to December 4, afterwards a Morning Star to the end of the year.

The purchasers of this Diary are desired to take notice that the *weather* column is not what *will be*, but *what was* at London in 1791.

The Gentlemen who sent what they thought a corrected solution to Queſt. 609, are respectfully informed, that they are mistaken. The *locus* mentioned in the same letter cannot be a circle; the other letters and questions there referred to never came to hand.

All proposers of [illegible]mas, Rebuses, Critical and Philosophical Questions, must send [illegible] answers with them, if they hope to see them publish-d. The proposers of Mathematical Questions will do well to try their propriety themselves before they send them; and, if they be POETICAL productions, they will run the hazard of being exposed for plagiarism.

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The Author returns his thanks to the Publick for the great and increasing sale of this performance, which he hopes is not beneath the notice of the best judges. If any real errors of any consequence be in it, he wishes them not to conceal but to point them out; and will be thankful to be informed of them. All letters for this work must be sent before the 1st of May next, directed to the Author of the Gentleman's Diary, Stationers-Hall, London.

JANUARY hath XXXI Days.

					M D	☉ D Sout
Laſt Quarter	5	Day at	0 h.	58 m. Afternoon.	1	22°
New Moon	12		8	57 Morning.	6	22
Firſt Quarter	19		2	29 Morning.	14	21
Full Moon	27		3	34 Morning.	16	20
					21	19
					26	18

☉ enters ♒ 19th Day, 11 H. 58 M. Morning.

1	T	Circumciſion.	8	a 30	2	M 46	19	rain.
2	W		9	32	3	30	20	fair.
3	T		10	35	4	13	21	
4	F	Days increaſed 11 min.	11	41	4	56	22	ſhowe
5	S	Old Chriſtmas Day.	morn.		5	41	23	
6	F	Epiphany. Twelth-Day.		48	6	27	24	fair.
7	M	Plough-Monday.	1	57	7	15	25	ſhowe
8	T	Lucian C. & M.	3	8	8	7	26	fair.
9	W		4	21	9	3	27	ſhowe
10	T		5	31	10	2	28	fair.
11	F		6	35	11	3	29	cloudy
12	S	Old New Year's-Day.	☽	ſets.	aſt.	5	N	
13	F	1ſt Sun. aft. Epiphany. Hil-	6	a 1	1	0	1	fair.
14	M	Ox. T. beg. ſary Cam. T. be.	7	21	1	4	2	cloudy
15	T	Days increaſed half an hour.	8	40	2	59	3	
16	W		9	57	3	52	4	
17	T	Old Twelfth Day.	11	10	4	42	5	ſhower
18	F	Q. Char. Birth-D. k. Priſca.	morn.		5	30	6	rain.
19	S	Days increaſed 43 min.		22	6	18	7	cloudy
20	F	2d Sund. aft. Epiph. Fabian.	1	28	7	6	8	fair.
21	M	Agnes, Hilary 1 ret.	2	33	7	53	9	
22	T	Vincent. M.	3	33	8	41	10	cloudy
23	W	Hilary Term begins at Weſt.	4	30	9	29	11	
24	T		5	23	10	17	12	fair.
25	F	Converſion of St. Paul.	6	7	11	4	13	cloudy
26	S	Days inc. 1 Ho. 4 min.	6	46	11	50	14	
27	F	Septu. S. Pr. Aug. Fred. b.	☽	riſes.	morn.		F	rain.
28	M	Hilary 2 ret.	6	a 13		35	16	fair.
29	T		7	14	1	20	17	cloudy
30	W	K. Char. I. mart. 1649.	8	17	2	3	18	
31	T		9	22	2	46	19	

D	☉ Riſes		☉ Sets.		Cl. bef. ☉		D. Break.		Sun		Eaſt		Saturn		So		Jupiter		S.		Mars	
1	8	4	3	56	4	22	5	59	4	41	6	a 49	8	m 38	2	a 1						
6	8	1	3	59	6	37		57		43	6	25	8	20	2							
11	7	56	4	4	8	41		53		46	6	4	8	2	1	5						
16	7	50	4	10	10	29		49		50	5	43	7	44	1	5						
21	7	43	4	17	12	0		44		54	5	22	7	26	1	4						
26	7	36	4	24	13	10		38		58	5	1			8	1	4					

FEBRUARY hath XXVIII Days.

					☽ D	☉ Decl. South
Last Quarter	4	Day at	3 h.	38 m. Morning.	1	16° 52′
New Moon	10		7	26 Afternoon.	6	15 22
First Quarter	17		6	0 Night.	11	13 45
Full Moon	25		10	36 Night.	16	12 3
					21	10 16
					26	8 25

☉ enters ♓ 18th Day, 2 H. 46 M. Morning.

W D	Sundays, Holidays, Birth-Days, Terms, &c.	Moon. R. & S	Moon South	☽ A.	Weather 1791.
F	Days increased 1 h. 23 min.	10 a 29	3 m 30	20	fair.
S	Purific. of B.V.M. or Cand.D	11 36	4 16	21	
F	Sexagesi. S. Blasius, B & M.	morn.	5 2	22	
M	[Hil. 3 ret.	44	5 51	23	
T	Agath. V.&M. Old St. Paul.	1 53	6 43	24	
W	Days increased 1 h. 40 m.	3 3	7 38	25	cloudy.
T		4 6	8 36	26	
F		5 6	9 36	27	
S		5 57	10 37	28	fair.
F	Quinq. or Shr.-S. Hil. 4 ret.	☽ sets.	11 39	N	
M		6 a 15	aft. 37	1	rain.
T	Shrove-T. Hilary T. end.	7 25	1 33	2	fair.
W	Ash-Wedn. Lent b. O.C.D.	8 43	2 26	3	rain.
T	Valentine B&M. Days inc. 2h	9 58	3 18	4	cloudy.
F	Camb. Term divides n.	11 10	4 8	5	fair.
S	Days 10 hours long.	morn.	4 57	6	
F	1st Sund. in Lent.	18	5 46	7	rain.
M		1 22	6 25	8	fair.
T		2 22	7 24	9	shower.
W	Ember Week.	3 15	8 12	10	rain.
T	Days incr. 2 hours 36 min.	4 3	8 59	11	fair.
F		4 44	9 46	12	
S		5 20	10 32	13	rain.
F	2 S in L. St. Mat. Pr. A. Fr. b.	5 53	11 17	14	fair.
M	☽ eclipsed visible.	☽ rises.	morn.	F	rain.
T		6 10	1	16	cloudy.
W		7 14	45	17	
T	Days increased 3 hours.	8 20	1 30	18	fair.

☉ Rises	☉ Sets.	Ch. bef. ☉	D. Break.	☉ Eatt	Sat. S.	Jup. S.	Mars S.
7 26	4 34	14 7	5 30	5 4	4 a 38	6 m 47	1 a 33
7 17	4 43	14 33	22	9	4 20	6 30	1 28
7 8	4 52	14 39	14	15	4 2	6 12	1 23
6 59	5 1	14 25	6	21	3 44	5 54	1 18
6 49	5 11	13 54	4 57	27	3 26	5 36	1 13
6 39	5 21	13 6	48	33	3 8	5 18	1 8

MARCH hath XXXI Days.

						M D	☉ Dec South.
Last Quarter	5	Day	2 h.	38 m.	Afternoon.	1	7° 17′
New Moon	12		5	57	Morning.	6	5 21
First Quarter	19		11	37	Morning.	11	3 24
Full Moon	27		3	34	Afternoon.	16	1 26
						21	Nor. 32
						26	2 30

☉ nters ♈ 20th Day, 3 H. 8 M. Morning.

1	F	David, A. Bp.	9 a 27	2 m 15	19	fair.
2	S	Chad, Bp.	10 36	3 0	20	
3	F	3d Sunday in Lent.	11 45	3 49	21	
4	M	Days 11 h. 4 m. long.	morn.	4 40	22	
5	T		52	5 33	23	
6	W		1 58	6 29	24	
7	T	Perpetua. Old St. Matthias.	2 58	7 27	25	
8	F		3 50	8 25	26	
9	S		4 35	9 23	27	
10	F	4th Sun. in L. Mid-lent Sun.	5 14	10 22	28	
11	M		5 50	11 19	29	
12	T	Gregory, Bp.	☽ sets.	aft. 15	N	
13	W		7 a 36	1 8	1	
14	T		8 49	2 1	2	
15	F		9 59	2 52	3	
16	S		11 7	3 43	4	
17	F	5th Sun. in Lent. Patrick.	morn.	4 33	5	
18	M	Edw. K. W. Saxons.	14	5 23	6	
19	T	Days 12 h. long.	1 13	6 12	7	
20	W	Spring begins.	2 4	7 0	8	rain.
21	T	Benedict, Ab.	2 48	7 47	9	
22	F	Cambridge Term ends.	3 25	8 34	10	fair.
23	S	Oxford Term ends.	4 0	9 20	11	
24	F	6th Sun. in Lent. Palm-Sun.	4 30	10 5	12	
25	M	Annunciation, or Lady Day.	4 58	10 49	13	
26	T		5 21	11 33	14	rain.
27	W		☽ rises.	morn.	F	cloudy.
28	T	Maundy Thursday	7 a 24	19	16	
29	F	Good Friday. Crucifixion.	8 34	1 6	17	
30	S	Days 12 H. 45 M. long.	9 44	1 54	18	
31	F	Easter-Day.	10 52	2 44	19	

D	☉ Rises	☉ Sets	Cl. bef. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	6 34	5 26	12′ 31″	4 43	5 37	2 a 58	5 m 0	1 a 5
6	6 24	5 36	11 23	32	43	2 42	4 43	1 0
11	6 14	5 46	10 6	21	49	2 26	4 26	0 55
16	6 4	5 56	8 41	11	53	2 10	4 10	0 51
21	5 54	6 6	7 10	0	6 2	1 54	5 54	0 47
26	5 44	6 16	5 37	3 48	8	1 38	3 38	0 43

APRIL hath XXX Days.

				M D	☉ Decl. North.
1st Quarter	3	Day at	10 h. 38 m. Afternoon.	1	4° 49
New Moon	10		4 35 Afternoon.	6	6 44
1st Quarter	18		6 20 Morning.	11	8 35
Full Moon	26		5 19 Morning.	16	10 23
				21	12 6
☉ enters ♈ 19th Day, 3 H. 56 M. Afternoon.				26	13 45

M	Easter Monday.	11	59	3m	37	20	fair.
T	Easter Tuesday.	morn.		4	32	21	
W	Richard, Bp.	1	0	5	29	22	
T	St. Ambrose.	1	55	6	26	23	
F	Old Lady Day.	2	42	7	23	24	cloudy.
S		3	22	8	19	25	rain.
	1st Sun. aft. Easter. Low-Su.	3	56	9	15	26	fair.
M		4	28	10	9	27	cloudy.
T		4	57	11	2	28	fair.
W	Oxf. and Camb. Terms beg.	☽ sets.		11	54	N	
T		7	a 50	aft.	47	1	cloudy.
F		9	3	1	39	2	fair.
S		10	8	2	30	3	cloudy.
	2d Sunday after Easter.	11	9	3	21	4	fair.
M	Easter T. 1 ret.	morn.		4	12	5	
T			5	5	1	6	
W	Easter Term beg.		51	5	49	7	
T		1	32	6	36	8	
F	Alphege, A. B.	2	8	7	22	9	
S		2	40	8	7	10	cloudy.
	3d Sunday after Easter.	3	8	8	51	11	
M	Easter T. 2 ret.	3	32	9	35	12	rain.
T	St. George.	3	55	10	20	13	showers
W		4	20	11	7	14	
T	St. Mark. P. & Mary b. 1776.	4	46	11	59	15	
F		☽ rises		morn.		F	fair.
S		8	a 46		45	17	cloudy.
	4th Sund. aft. Easter.	9	55	1	38	18	fair.
M	Easter T. 3 ret.	11	1	2	33	19	cloudy.
T		11	58	3	30	20	rain.

☽ Rises	☉ Sets	Ch. bef. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S
5 32	6 28	3 45	3 33	6 15	11 a. 19	3 m 15	0 a 38
5 22	9 38	2 16	20	21	1 3	2 55	0 33
5 13	6 47	0 52	6	27	0 47	2 35	0 29
5 3	6 57	aft. 0	2 54	33	0 31	2 15	0 25
4 54	7 6	1 30	40	39	0 15	1 55	0 21
4 45	7 15	2 27	23	45	0 0	1 35	0 17

MAY hath XXXI Days.

						M D	☉ Nu
Last Quarter	3	day at	4 h. 25 m.	Morning.		1	15
New Moon	10		3 31	Morning.		6	16
First Quarter	18		0 53	Morning.		11	18
Full Moon	25		3 52	Afternoon.		16	19
						21	20
						26	21

☉ enters ♊ 20th Day, 4 H. 26 M. Afternoon.

1	W	St. Philip & St. Jacob Ap.	morn.		4 m	27	21	rain
2	T			49	5	25	22	
3	F	Invention of the Cross.	1	29	6	21	23	cloud
4	S		2	5	7	15	24	
5	F	5 Sun. aft. East. Rogat. Su.	2	37	8	8	25	fair.
6	M	St. J. Ev. ante P. L. East. 4 ret.	3	6	9	0	26	
7	T		3	32	9	51	27	
8	W		4	0	10	42	28	
9	T	Ascension-Day. Holy Thurs.	4	28	11	32	29	cloud
10	F	Easter 5 ret.	☽ sets		aft.	25	N	rain
11	S		9 a	2	1	15	1	cloud
12	F	S. aft. A. c. D. Old May-Day	9	59	2	6	2	
13	M	East. Term ends.	10	49	2	56	3	fair.
14	T		11	34	3	45	4	
15	W		morn.		4	33	5	
16	T	Oxford Term ends.		12	5	19	6	showe
17	F			44	6	4	7	
18	S	[Dunstan.	1	12	6	48	8	
19	F	Whit-Sunday. Qu. Char. b.	1	37	7	31	9	
20	M	Whit-Monday.	2	1	8	15	10	cloud
21	T	Whit-Tuesday.	2	25	9	0	11	
22	W	Em. W. Prs. El b. Ca. T. div.	2	49	9	47	12	fair.
23	T		3	14	10	36	13	showe
24	F		3	44	11	28	14	fair.
25	S		☽ rises.		morn.		F	showe
26	F	Trin. Sund. Augustin. A Bp	8 a	48	0	23	16	fair.
27	M	Ven. Bede. Trin. T. 1 ret.	9	51	1	29	17	
28	T	[Oxf. T. beg.	10	45	2	19	18	
29	W	K. Charles. II. Rest. 1660.	11	31	3	18	19	
30	T		morn.		4	16	20	
31	F	Trinity Term begins.		9	5	12	21	

D	☉ Rises		☉ Sets		Cl. aft. ☉		D. Break		☉ East		Saturn S.		Jupiter S.		Mar
1	4	36	7	24	3′	11″	2	4	6	50	11 m	42	1 m	14	0 a
6	4	27	7	33	3	41	1	50	6	55	11	24	0	52	0
11	4	19	7	41	3	56	1	28	7	0	11	7	0	29	0
16	4	12	7	48	3	57	1	4	7	4	10	50	0	6	11 m
21	4	5	7	55	3	45	0	24	7	8	10	33	11 a	43	11
26	3	58	8	2	3	19	0	0	7	12	10	16	11	20	11

JUNE hath XXX Days.

				M D	☉ Decl. North.
ſt Quarter	1	Day at	9 h. 33 m. Morning.	1	22° 9′
ew Moon	8		3 27 Afternoon.	6	22 44
rſt Quarter	16		6 0 Afternoon.	11	23 9
ull Moon	24		0 8 Morning.	16	23 23
aſt Quarter	30		3 14 Afternoon.	21	23 28
			☉ enters ♋ 21ſt Day, 1 H. 10 M Morning.	26	23 22

S	Nicomede, M.	m	43	6 m	0	22	fair.
F	1ſt Sunday after Trinity.	1	10	6	56	23	
M	Trin. T. 2 ret.	1	36	7	46	24	
T	K. Geo. III. born 1738.	2	3	8	36	25	
W	Pr. Er. Aug. b. Bonif. B. M.	2	29	9	25	26	
T		3	0	10	15	27	
F		3	33	11	5	28	
S		☽ ſets.		11	55	N	cloudy.
F	2d Sunday aft. Trin.	8 a	40	aft.	46	1	fair.
M	Trin. T. 3 Ret.	9	27	1	35	2	
T	St. Barnabas.	10	7	2	23	3	cloudy.
W		10	42	3	10	4	fair.
T		11	13	3	56	5	ſhowers
F		11	38	4	40	6	fair.
S		morn.		5	28	7	cloudy.
F	3d Sun. after Trinity.		3	6	5	8	rain.
M	St. Alban, M. Trin. T. 4 Ret.		24	6	48	9	cloudy.
T			47	7	33	10	rain.
W	Trinity Term ends.	1	11	8	20	11	fair.
T	Tranſla. K. Edw. K. W. S.	1	39	9	10	12	cloudy.
F	Longeſt Day. 16 h. 34 m. lo.	2	8	10	3	13	ſhower
S		2	45	11	0	14	fair.
F	4th Sun. aft. Trin.	☽ riſes.		11	59	15	
M	Nat. St. John Bap. Midſ. D.	8 a	32	morn.		F	
T		9	22	1	0	17	
W		10	3	2	0	18	
T		10	39	2	58	19	
F		11	9	3	54	20	
S	St. Peter, Apoſ. and Martyr.	11	37	4	47	21	
F	5th Sund. after Trin.	morn.		5	39	22	ſhowers

☽ Riſes	☉ Sets	Cl. aft. ☉		☉ East	Saturn S.	Jupiter S.	Mars S
3 52	8 8	2′ 33″	No	7 16	9 m 55	10 a 5	11 m 41
3 48	8 12	1 42	real	18	9 37	10 29	11 35
3 45	8 15	0 44	Night	19	9 18	10 7	11 20
3 43	8 17	bef. 18	in	20	8 59	9 45	11 23
3 43	8 17	1 22	Bri-	21	8 40	9 22	11 17
3 44	8 16	2 25	tain.	20	8 21	8 59	11 11

JULY hath XXXI Days.

New Moon	8	Day at	4 h.	33 m.	Morning.	D	☉	[illegible]
First Quarter	16		8	54	Morning.	1	[illegible]	
Full Moon	23		7	22	Morning.	6	22	3
Last Quarter	29		10	46	Afternoon.	11	22	
						16	21	1
						21	20	2
						26	19	1

☉ enters ♌ 22d Day, 0 H. 4 M. Afternoon.

1	M	[sitation of B. V. Mary.	morn.	3	6 m	28	23	cloudy
2	T	Cam. Commencement. [Vi-		29	7	17	24	rain.
3	W	Dog-Days begin.		58	8	7	25	cloudy
4	T	Tr. of St. Martin.	1	29	8	56	26	shower
5	F	Old Midſ. Day. Cam. T. e.	2	4	9	45	27	
6	S		2	45	10	35	28	fair.
7	F	6th S. a. Tr. Tho. à Becket.	3	29	11	25	29	rain.
8	M	Oxford Act.	☽	sets.	aft.	13	N	fair.
9	T		8 a	38	1	0	1	
10	W	Old St. Peter.	9	9	1	46	2	rain.
11	T		9	36	2	31	3	
12	F		10	2	3	14	4	cloudy.
13	S	Oxford Term ends.	10	25	3	57	5	
14	F	7th Sunday after Trinity.	10	47	4	40	6	
15	M	Swithun, B. Tr.	11	10	5	23	7	
16	T		11	35	6	8	8	
17	W	Days 16 h. long.	morn.		6	55	9	
18	T			3	7	46	10	showers
19	F			37	8	40	11	fair.
20	S	Margaret, V. & M.	1	17	9	37	12	cloudy.
21	F	8th Sund. aft. Trin.	2	5	10	37	13	fair.
22	M	St. Mary Magdalen.	3	5	11	38	14	
23	T		☽	riſes.	morn.		F	
24	W		8 a	32		39	16	rain.
25	T	St. James, Apoſtle.	9	7	1	38	17	
26	F	St. Anne. Old St. Swithun.	9	36	2	35	18	
27	S		10	4	3	29	19	fair.
28	F	9th Sunday after Trinity.	10	32	4	21	20	
29	M		10	59	5	17	21	
30	T		11	31	6	1	22	
31	W		morn.		6	51	23	

D	☉ Riſes		☉ Sets		Cl. bef. ☉		D. Break	☉ Eaſt		Saturn S.		Jupiter S.		Mar
1	3	46	8	14	3	25		7	19	8 m	3	8 a	37	11 m
6	3	49	8	11	4	19	No		18	7	43	8	16	10
11	3	53	8	7	5	4	real		15	7	26	7	55	10
16	3	58	8	2	5	37	Night.		12	7	7	7	34	10
21	4	4	7	56	5	57			9	6	48	7	14	10
26	4	11	7	49	6	3	0 52		5	6	29	6	54	10

AUGUST hath XXXI Days.

New Moon	6	Day at	7 h. 33 m.	Afternoon.
First Quarter	14		9 26	Afternoon.
Full Moon	21		2 46	Afternoon.
Last Quarter	28		9 18	Morning.

M D	☉ Decl. North.
1	17° 52
6	16 32
11	15 5
16	13 33
21	11 55
26	10 12

☉ entes ♌ 22d Day, 6 H. 28 M. Afternoon.

1	T	Lammas-Day.	morn.	5	7 m	41	24	rain.
2	F			44	8	31	25	fair.
3	S		1	26	9	20	26	
4	F	10th Sunday after Trinity.	2	16	10	9	27	
5	M		3	9	10	56	28	
6	T	Transfiguration. D. 15 h. long	☽	sets.	11	43	N	
7	W	Pts. Ame. b. Name of Jesus.	7 a	34	aft.	28	1	
8	T		8	7	1	13	2	
9	F		8	30	1	56	3	
10	S	St. Laurence, M. [Days end.	8	54	2	39	4	
11	F	11 S aft. T. Prs. Br. b. Dog	9	15	3	21	5	
12	M	Pr. of Wa. b. Old Lammas-D.	9	40	4	5	6	
13	T		10	6	4	51	7	
14	W		10	36	5	39	8	thunder
15	T	Assumption.	11	12	6	30	9	fair.
16	F	D. of York bo. 1763.	11	55	7	24	10	rain.
17	S		morn.		8	21	11	fair.
18	F	12th Sunday after Trinity.		50	9	21	12	
19	M		1	52	10	22	13	
20	T		3	4	11	22	14	
21	W	D. of Clarence born.	☽	rises.	morn.		F	
22	T		7 a	38		21	16	showers
23	F		8	8	1	18	17	fair.
24	S	St. Bartholomew. D. 14 h. l.	8	37	2	13	18	
25	F	13th Sunday after Trinity.	9	5	3	6	19	
26	M		9	36	3	58	20	
27	T		10	10	4	50	21	showers
28	W	St. Auguſtine.	10	48	5	41	22	
29	T	St. John Baptiſt beheaded.	11	30	6	32	23	fair.
30	F		morn.		7	22	24	cloudy.
31	S			16	8	11	25	rain.

☉ Rises	☉ Sets	Cl. bef. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
4 20	7 40	5 51″	1 24	7 0	6 m 5	6 a 32	10 m 29
4 28	7 32	5 25	1 44	6 55	5 47	6 15	10 28
4 37	7 23	4 44	2 2	50	5 29	5 58	10 19
4 45	7 15	3 49	2 20	44	5 11	5 41	10 14
4 54	7 6	2 41	2 35	39	4 53	5 24	10 9
4	6 56	1 21	2 50	33	4 35	5 7	10 4

SEPTEMBER hath XXX Days.

				M D	☉ Decl North.
New Moon 5	Day at	11 h. 57 m.	Morning	1	8° 3
First Quarter 13		7 52	Morning	6	6 11
Full Moon 19		11 8	Night.	11	4 21
Last Quarter 26		11 36	Night.	16	2 23
				21	0 20
☉ enters ♎ 22d Day, 2 H. 58 M. Afternoon.				26	1 S. 31

1	F	14 S. af. Tr Giles, Ab. & C.	1 m	9	8 m	59	fair.
2	M	London burnt 1666, O. S.	2	5	9	47	
3	T		3	4	10	32	rain.
4	W	Old St. Bartholomew.	4	6	11	17	fair.
5	T	☉ eclipsed, visible.	☽	sets.	aft.	1	N
6	F		7 a	6		44	1 shower
7	S	Enurchus, B.	7	29	1	28	2 fair.
8	F	15th Sund. aft. Tr n. [Nati-	7	52	2	11	3
9	M	D. 15h. long. [vity of B. V. M.	8	18	2	56	4
10	T		8	47	3	43	5
11	W		9	18	4	32	6
12	T		9	58	5	24	7
13	F		10	47	6	18	8
14	S	Holy Cross Day.	11	43	7	16	9
15	F	16th Sunday after Trinity.	morn.		8	15	☉
16	M			54	9	13	11
17	T	Lambert, B. M.	2	5	10	11	12
18	W	Ember Week.	3	25	11	9	13 shower
19	T		☽	rises.	morn		1 fair.
20	F		6 a	42		5	15
21	S	St. Matthew, Evang.	7	12	1	0	16 cloudy
22	F	17 S. af. Tr. K. Geo. III. cr.	7	43	1	54	17 fair.
23	M	[Equal Day & Night.	8	16	2	48	18
24	T	Days 12 h. long.	8	52	3	41	19
25	W		9	34	4	33	20
26	T	St. Cyprian, M.	10	21	5	25	21
27	F		11	12	6	15	22
28	S		morn.		7	4	23
29	F	18 S. af. T. St. Mi. Pr. R. b.		7	7	52	24
30	M	St. Jerom. C. D.	1	6	8	39	25

D	☉ Rises	☉ Sets	Cl. aft. ☉	D Break	Last	Saturn S.	Jupiter S.	Mars
1	5 15	6 45	0′ 25″	3 7	6 26	4 m 14	4 a 47	9 m 5
6	5 25	6 35	2 2	21	20	3 55	4 32	9 5
11	5 34	6 26	3 44	34	14	3 36	4 17	9 4
16	5 44	6 16	5 28	45	8	3 17	4 2	9 4
21	5 54	6 6	7 14	56	2	2 59	3 47	9 3
26	6 4	5 56	8 56	4 7	5 55	2 41	3 32	9 3

OCTOBER hath XXXI Days.

New Moon	5	Day	4 h. 37 m.	Morning.	
First Quarter	12		4 46	Afternoon.	
Full Moon	19		9 0	Morning.	
Last Quarter	26		5 47	Afternoon.	

M D	☉ Dec. South.
1	3° 27′
6	5 23
11	7 18
16	9 10
21	10 58
26	12 42

☉ enters ♎ 22d Day 10 H. 56 M. Night.

1	T	Remigius, Bp.	2 m 6	9 m 24	26	fair.
2		Old St. Matthew.	3 10	10 9	27	
3	T		4 12	10 51	28	cloudy.
4	F		5 15	11 35	29	rain.
5	S		☽ sets.	aft. 19	N	fair.
6	F	19 S. aft Tr. Faith, V. M.	6 a 31	1 4	1	rain.
7	M		6 58	1 50	2	cloudy.
8	T		7 29	2 39	3	fair.
9	W	St. Denys, B M. D. 11 h. lon.	8 7	3 30	4	rain.
10	T	Ox. & Cam. T. beg. O. Mich. D	8 52	4 23	5	
11	F		9 43	5 17	6	fair.
12	S		10 44	6 13	7	
13	F	20 S. af. T. Tr. K. Ed. Con.	11 52	7 10	8	
14	M		morn.	8 7	9	rain.
15	T		1 9	9 2	10	fair.
16	W	Days decreased 6 hours.	2 28	9 57	11	
17	T	Etheldreda, V.	3 47	10 52	12	
18	F	St. Luke, Evangelist.	5 9	11 46	13	showers
19	S		☽ rises.	morn.	F	rain.
20	F	21st Sunday after Trinity.	6 a 16	40	15	stormy.
21	M		6 52	1 33	16	
22	T		7 33	2 27	17	fair.
23	W		8 17	3 20	18	
24	T	Days 10 h. 4 m. long.	9 7	4 12	19	
25	F	K. Geo. III. Acc. Chif. Mar.	10 3	5 3	20	
26	S	K. Geo. III. P[illegible] m. 1760.	11 0	5 51	21	rain.
27	F	22d Sunday after Trinity.	11 59	6 40	22	cloudy.
28	M	St. Simon and St. Jude.	morn.	7 25	23	fair.
29	T		1 2	8 9	24	
30	W		2 5	8 53	25	cloudy.
31	T	Days 9 h. and half long.	3 9	9 36	26	

D	☉ Rises	☉ Sets	Cl. aft. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S
1	6 14	5 46	10′ 33″	4 18	5 49	2 m 22	3 a 17	9 m 25
6	6 24	5 36	12 2	29	43	2 2	3 2	9 18
11	6 33	5 27	13 21	39	37	1 42	2 47	9 11
16	6 43	5 17	14 28	49	31	1 22	2 32	9 4
21	6 53	5 7	15 21	59	25	1 2	2 18	8 57
26	7 2	4 58	15 57	5 8	19	0 42	2 4	8 49

NOVEMBER hath XXX Days.

New Moon	3	Day at	8 h. 26 m.	Afternoon.
First Quarter	11		0 44	Morning.
Full Moon	17		8 46	Afternoon.
Last Quarter	25		2 47	Afternoon.

☉ enters ♐ 22d Day, 7 H. 8 M. Afternoon.

M D	☉ Decl. South.
1	14° 41
6	16 13
11	17 39
16	18 57
21	20 6
26	21 6

1	F	All Saints. Days decrea. 7 h.	4 m	10 m	19	27	cloudy
2	S	Pr. Ed. b. 1767. All Souls.	5 18	11 3		28	
3	F	23 S. af. Tr. Prs. Sop. b. 1777.	☽ sets	11 49		N	
4	M	K. William landed.	5 32	aft. 37		1	
5	T	Powder Plot, 1605.	6 8	1 28		2	
6	W	Leonard, C. Michaelm. T. b.	6 50	2 21		3	fair.
7	T		7 41	3 16		4	fog.
8	F	Prs. Aug. Sophia b. 1768.	8 40	4 12		5	fair.
9	S	Lord Mayor's Day at Lond.	9 45	5 8		6	
10	F	24th Sunday after Trinity.	10 58	6 4		7	rain.
11	M	St. Martin, B.	morn.	6 58		8	fair.
12	T	Mich. T. 2 R. Cam. T. div. m.	13	7 51		9	rain.
13	W	Britius, B.	1 29	9 43		10	cloudy
14	T		2 48	9 35		11	rain.
15	F	Machutus, B.	4 5	10 27		12	cloudy
16	S	Days 8 h. 44 m. long [Lincoln.	5 23	11 19		13	windy.
17	F	25 Sun. a. Tr. Hugh Bp. of	☽ rises.	morn.		☽	rain.
18	M	Mich. T. 3 ret.	5 a 24	12		15	
19	T		6 6	1 6		16	
20	W	Edmund K. & M.	6 54	1 59		17	
21	T	Days decreased 8 h. 4 m.	7 46	2 51		18	cloudy
22	F	Cæcilia, Old St. Martin.	8 44	3 41		19	fair.
23	S	St. Clement, B. M.	9 44	4 30		20	
24	F	26th Sunday after Trinity	10 44	5 16		21	cloudy
25	M	D. of Glo. b. 1743. Cath. M.	11 46	6 0		22	shower
26	T	[Term 4 ret.	morn.	6 43		23	fair.
27	W	Days 8 h. 13 m. long.	50	7 26		24	cloudy
28	T	Michaelmas Term ends.	1 54	8 9		25	rain.
29	F		2 58	8 52		26	fair.
30	S	St. Andrew, Apost.	4 4	9 37		27	cloudy

D	☽ Rises	☉ Sets	Cl. aft. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars
1	7 13	4 47	16′ 14	5 17	5 12	0 m 17	1 a 46	8 m 4
6	22	38	16 7	24	7	11 a 54	1 32	8 3
11	30	30	15 38	31	1	11 31	1 16	8 2
16	38	22	14 49	37	4 57	11 8	1 0	8 1
21	45	15	13 40	43	54	10 45	0 44	8
26	52	8	12 10	49	49	10 22	0 28	7 5

DECEMBER hath XXXI Days.

					M. D.	☉ Decl. South.
New Moon	3	Day at	10 h. 47 m.	Morning.	1	21° 57′
1st Quarter	10		8 29	Morning.	6	22 36
Full Moon	17		19 52	Morning.	11	23 5
3d Quarter	25		0 34	Afternoon.	16	23 22
					21	23 28
					26	23 21

☉ enters ♑ 21st Day, 7 H. 29 M. Morning.

F	Advent Sunday.		5 m	11	10 m	23	28 fair.
M			6	22	11	14	29
T			☽ sets.		aft.	5	N cloudy.
W	Days 8 hours long.		5 a	25	1	0	1 rain.
T			6	23	1	58	2 fog.
F	Nicholas, Bp.		7	28	2	55	3 rain.
S		[tion of V. Mary.	8	39	3	52	4
F	2d Sun. in Advent Concep-		9	55	4	47	5
M			11	12	5	40	6 snow.
T			morn.		6	31	7 deep.
W				28	7	21	8 fair.
T			1	42	8	11	9 cloudy.
F	Lucy, V. and M.		2	56	9	2	10 fair.
S			4	10	9	53	11
F	3d Sund. in Advent.		5	23	10	45	12
M	O. Sapientia. Cam. T. ends.		6	30	11	37	13
T	Oxf. Term ends.		☽ rises.		morn.		F
W	Ember Week.		5	29		29	15
T			6	19	1	20	16 cloudy.
F	Days 7 h. 44 min. long.		7	16	2	10	17
S	St. Thomas. Shortest Day.		8	18	2	57	18 fair.
F	4th Sunday in Advent.		9	21	3	43	19
M			10	23	4	27	20 rain.
T			11	26	5	9	21 snow.
W	Nativity, or Christmas-Day.		morn.		5	51	22 fair.
T	St. Stephen, Protomartyr.			28	6	33	23
F	St. John. Evangelist.		1	33	7	16	24 rain.
S	Innocents' Day.		2	38	8	1	25 fair.
F	Sunday after Christmas.		3	46	8	48	26
M			4	54	9	39	27 cloudy.
T	Silvester, B.		6	2	10	32	28 fair.

☽ Rises	☉ sets	☽ S. am.	D. Bark	☉ Eart	Saturn S.	Jupiters.	Mars S
7 57	4 3	10′ 22″	5 54	4 45	12 a 0	0 a 11	7m 38
8 2	3 58	8 18	56	43	9 37	11 m 53	7 26
5	55	9 2	58	41	9 14	11 36	7 14
7	53	3 37	6 0	40	8 51	11 19	7 2
8	52	1 9	1	39	8 28	11 2	6 50
7	51	10 39	0	40	8 5	10 45	6 38

ANSWERS *to the* QUESTIONS *Critical and Philosophical.*

CXX. Answered by *Philo-criticus.*

The inconsistencies supposed in the question are merely imaginary. They have no other grounds than the mistake of considering the text in a wrong view. We read the 2d chap. of Genesis as a continuation of the account given of the Creation in the 1st chap. whereas it is in truth nothing more than an explanatory supplement of some passages in that account. The whole work of Creation was finished in the six days; for in the 7th day, God rested from all his work! Both man and woman therefore were completely finished on the 6th Day. We find God speaking to them on that day in the plural number (see v. 28.) and giving them power to be fruitful and multiply; which Adam singly could not have done. The information we have at the latter part of the 2d chapter appears to be given us, that, by considering the close connection there is in nature between the sexes, we may be made the more sensible of the strict union there ought to be between them in affection.

In Chap. ii. 7. we are taught that man was formed of the dust of the ground, plainly with a view of giving him a lesson of humility, by acquainting him that his body consisted not of better materials than those of the animals about him, being all, *his* as well as *theirs*, formed of the dust of the ground.

In v. 5. it is observed, that God produced the fruits of the earth by his creative power, *before there were men*, or rains to promote vegetation in it, to check the forward spirit of the carnal-minded man, which would be apt to surmise that the *power*, which he called *nature*, produced them without the concurrence of God's commandment.

Answers nearly to the same effect are given by Messrs. *Baker, Burrows, Cairns, Cockrell, Corving, Fields, Glendenning, Hughes, Jackson, L. L., Murray, OEdipus, Robarts, Rowe, Virgilius* and *Youle.*

CXXI. By Mr. *H. Mellanby*, of Stockton.

No. For, 'not every one that saith unto me Lord, Lord, shall enter into the Kingdom of Heaven, but he that doeth the will of my Father who is in Heaven.'

OEdipus of the same place says, though to know Christ be life eternal, yet knowledge is of two kinds, that which exists only in the brain, and that which affects the heart: they, whose knowledge exists only in the brain, who are wilfully disobedient, who know but practise not, Christ will never own; but they, who know and practise what they know—these are Christians indeed—these are the wise virgins who have their lamps trimmed, and, this life ended, shall enter into the joy of their Lord!

Mr. *Joseph Youle* says, 'By grace through faith are we saved, says St. Paul; but this is not a mere relying upon Christ's righteousness, that dead image of faith so much adored by some; but the active faith of father Abraham, which worketh obedience and is productive of every Christian virtue. Pretension to faith without morality is the greatest hypocrisy.

Mr. *W. Murray* of Hallington answers to the same effect; and with the Apostle says, what fellowship hath righteousness with unrighteousness, or what concord hath Christ with Belial? Let every one that

name

the name of Christ depart from iniquity. 2 Tim. ii. 19. And answers to the very same effect were also given by Messrs. *Baker*, *Burrow*, *Cairns*, *Cockrell*, *Cowing*, *Glendenning*, *Hughes*, *Jackson*, *L. L. Liddell*, *Roberts*, *Savage*, *Rowe*, *Virgilius*, *Wyrill*, and others.

CXXII. By Mr. *J. Cairns* of Monckton.

Antecedent to the emigration of the Israelites into Egypt, that kingdom was invaded by Ethiopian or Arabian shepherds, who committed great devastations and usurped the regal power. This bred in the Egyptians a resentment similar to that which our forefathers entertained against the Danes. Another reason for this antipathy was the shepherds killing and eating those beasts, that the Egyptians counted sacred, and offering them up in sacrifice. (See Poole's Annotations.)

Messrs. *Baker*, *Burrow*, *Chapman*, *Cockrell*, *Cowing*, *Glendenning*, *Hughes*, *Jackson*, *L. L.* — of Brin Kendal, *Murray*, *OEdipus*, *Roberts*, *Rowe*, *Savage*, *Wood*, *Wyrill* and *Youle*, gave similar answers.

CXXIII. By Mr. *J. Jackson*, of Hutton-Rudby-School.

Any sudden surprize will cause a palpitation of the heart, and the first flutter of the lungs forces from the chest through the throat some of the vowels; for a consonant requires the assistance of the tongue or lips to pronounce it, but a vowel does not, and particularly the vowel O, which comes from the chest free and unrestrained; though I is sometimes breathed, and sometimes the broad A, but not so common as O, because they are not breathed so naturally.

Like answers are also given by Messrs. *Burrow*, *Cairns*, *Chapman*, *Cockrell*, *Cowing*, *Glendenning*, *Hughes*, *L. L. Liddell*, *Mellanby*, *Murray*, *Roberts*, *Rowe*, and *Wyrill*.

CXXIV. By Mr. *W. Murray*, of Hallington.

Disappointment in love seems much more intupportable than disappointed ambition, as the latter seldom appears irrecoverable: for though a gentleman do not succeed to be a member of parliament one turn, he may another. Or, suppose a candidate for a certain school to be disappointed now, he may succeed the next vacancy, or get another as good or better: but true love being centered in one object, disappointment is looked upon as irretrievable. Moreover ambition appears to be only a desire, but love the chief passion, *stronger than death*, says the wise man, and we see often proves stronger than life.

Mr. *Burrow* is of the same opinion, but concludes his answer thus— "But as the *proposer* has to my certain knowledge met with disappointment both ways, he is the fittest person to solve the question." And Mr. *Walton*, the proposer, thinks disappointed ambition the worst, because of the facility with which a new object of love may be found: but the majority is against him; for, Messrs. *Cairns*, *Chapman*, *Cockrell*, *Cowing*, *Hughes*, *Jackson*, *L. L. Liddell*, *Mellanby*, *OEdipus*, *Roberts*, *Rowe*, and *Savage*, agree with Mr. *Murray*. Messrs. *Glendenning*, *Virgilius*, *Wyrill*, and *Youle*, with Mr *Walton*. But we have no room for more.

CXXV. By Mr *J. Burrow*, of Boltonfield.

The smell of goats, of their urine and dung, is said to drive away serpents, vipers, and other venomous creatures; the dung, if immediately applied, to cure their bites and those of mad-dogs. They are said to prevent the farcey, scab, glanders, staggers, and other epidemical diseases in horses, &c. by their disagreeable smell, which drives away the *animalculæ* that cause these distempers.

Answers

Anſwers are alſo given by Meſſrs. *Baker, Cairns, Chapman, Cockrel, Cowing, Fildes, Glendenning, Hughes. Jackſon, L. L. Liddell, Mellanby, Murray, OEdipus, Rowe, Savage, Virgilius, Ward, Wyrill,* and *Youle.*

CXXVI. By Mr. *J. Wyrill,* of Wiſtow, near Selby.

Geeſe deſtroy the noxious inſects and reptiles which country people think cauſe what they call poiſon: and gooſe-dung has been found very beneficial in ſeveral diſorders incident to cattle.

Meſſrs. *Burrow, Cairns, Chapman, Cockrell, Cowing, Glendenning, Hughes, Jackſon, L. L. Liddell, Mellanby, Murray, Robarts, Rowe,* and *Virgilius* alſo anſwered it. Mr. *R. Cockrel* of Lartington ſays, near Sutton in Nottinghamſhire there is a barren piece of land given by the town for a gooſe-paſture, the geeſe have been kept in it for many years, and their dung has ſo enriched it, that it is become one of the moſt fruitful pieces of ground in the whole country.

In rich paſtures, where bullocks uſed frequently to die to the great loſs of the grazier, it has been found that keeping geeſe has removed that evil, &c.

CXXVII. By *Virgilius.*

Salt, with which the ocean is ſo much impregnated, contains much electric fire, and, about the rudder of a ſailing veſſel, there is a great friction of the ſervice, which like the globe of a machine collects the fire from the water beneath, and appears very luminous at the ſtern upon the ſurface, and, water being a conductor, it continues viſible till abſorbed by the water. Mr. *Burrow* gives nearly the ſame anſwer. Mr. *Gough* ſays, the appearance ſeems to be occaſioned by the putrifaction of animal ſubſtances in ſalt water, by which part of the phoſphorus, being diſengaged from the blood and fleſh, mixes with the ſea-water, and is occaſionally expoſed to the air by agitation. See *Canton's* Life, by *Kippis*, Biog. Britan. Meſſrs. *Cairn, Cockrel, Cowing, Glendenning, Hughes, Jackſon, Liddell, Mellanby, OEdipus, Robarts, Rowe,* and *Wyrill,* alſo gave ingenious anſwers.

CXXVIII. By Mr. *J. Jackſon,* of Rudby School.

The weight of bodies will be a maximum at the poles becauſe the earth is flatteſt there. But at the centre, which is the Palladium anſwer, the weight will be nothing.—The ſame obſervation is made by Mr. *Poſſman,* the propoſer. And Meſſrs. *Burrow, Cairns, Chapman, Cockrel, Cowing, Fildes, Gittins, Glendenning, Hughes, L. L. Liddel, Mellanby, Roberts, Rowe, Virgilius, Wyril,* and *Youle,* alſo gave anſwers.

CXXIX. By *Mr. J. Burrow,* of Boltonfield.

The milk is electrified by the action of churning, and the febrile effluvia flying through the whole body of milk, cauſe the ſeparation of the milk and butter. So that it may be ſaid to be cauſed by the action of fire.

Meſſrs. *Cairns, Chapman, Cockrel, Cowing, Glendenning, Hughes, Jackſon, L. L. Liddell, Roberts, Rowe,* and *Wyrill,* alſo anſwered this queſtion.

ÆNIGMATOLOGY.

ANSWERS to the laſt year's ÆNIGMAS.

1. A Well.
2. A School-boy.
3. A Pen.
4. A Net.
5. A Shuttle.
6. Water.
7. Twilight.
8. Joſeph.
9. A Lantern.
10. A Guide-Poſt.
11. The Alphabet.
12. Canvas.
13. Fortune.
14. Light.
15. A Guinea.

Priſse. God's Bleſſing.

1. *Rebus*, Honeſty. 2. Lee. 3. A Smoak-Jack. 4. Honey-Moon. 5. Reward. 6. Earneſt. 7. Sand-box. 8. A Pen-knife.

GENERAL ANSWERS.

1. Addreſs to the ingenious Writers in the Gentleman's Diary.

By LAVINIUS of Lancaſter.

Ye bards whom mild modeſty lights with her beam,
While you chant o'er the *lee* your ſweet carrols along.
Were the ſmoke-jack or honey-moon only your theme,
You cou'd bid them to glow with the beauties of ſong.
Rewarded by peace, the ſoft earneſt of heav'n
From your ſand-box no falſhood ſhall ever proceed,
Nor the pen-knife of ſlander by jealouſy driv'n,
Cauſe the innocent friend of your boſom to bleed.
Full *well* can you waken the pitiful ſigh,
Sincere, from the *ſchool-boy* as ever aroſe!
While the big drops of ſorrow roll faſt from each eye,
And we melt at the tale of poetical woes.
And now from your *pen* what inſtruction proceeds!
You ſhew us the *net* (oft diſguis'd from the view)
Where folly, while faſhion emblazons her, ſpreads,
And you mark out the track which we ought to purſue.
While gay ſober *twilight* is ſeen in the ſky,
You ſing the *delights* of the hound and the *horn*,
And ſwift as a *ſhuttle* the hunters all fly,
As echo's ſhrill hollo awakens the morn.
O! ever the *guide-poſts* to wiſdom and truth,
The *lantern* to *light* us thro' life's dreary maze!
Beſt patrons of *letters!* Forgive a fond youth,
Who attunes the lov'd lyre to your merited praiſe.
And hear his laſt wiſhes!—they're warm from the heart—
See the *canvas* unfurl'd! and *fate* point the way!
From the ſweet *golden* ſcenes of my childhood I part.
But the ſharp croſs of abſence your ſongs ſhall allay.
Then while I am diſtant from Albion's *bleſs'd* ſhore,
May you live crown'd with honour, with pleaſure and peace!
May you find depths of ſcience ne'er fathom'd before,
And the fame of your Diary for ever increaſe!

2. The

2. The Gardener. By VIRGILIUS.

Within yond cultur'd ſpace improv'd by art,
How *fortunate* the gardener that toils, 13.
Ere *twilight* ends, he takes of work his part, 7.
In turning o'er the mould of different ſoils.
His *nets* and traps the birds and thieves enſnare, 4.
Wall-trees he keeps from ev'ry boiſterous wind,
Waters his flow'rs and rears with dext'rous care, 6.
No *money'd* thoughts diſturb his peaceful mind. 15.
When thus his daily labours o'er,—at night
His little children leads in virtue's road,
And by the *Lantern's* pale and waning *light*, 9. 14.
Teaches his *boys* to reverence their God. 2.
Inſtructs them all the *alphabet* to ſcan, 11.
Prepares them *pens* that they may learn to write, 3.
True as the *ſhuttle* flies, explains the plan. 5.
Of doing *well*, to *guide* them to delight. 1. 10.
His little cot upon a rock, his yard
Brick-walls and *canvas* ſheds well plac'd ſurround, 12.
Thus *Joſeph* lives, fixing his kind regard 8.
On raiſing nature's *bleſſing* from the ground. 16.

3. Gripus, part the 2nd. By Mr. T. BRADBERRY.

Well, ſirs, I to my promiſe true,
My *pen* again reſume,
The tale of Gripus to purſue,
And tell his final doom.
Fear rack'd his ſoul as *twilight* fled,
As *water* weak and tir'd,
Rogues, thieves, and murders fill'd his head,
His every hope expir'd.
His abſent hoard by fraud obtain'd,
Hung heavy at his heart, [main'd,
His way he miſs'd, what then re-
That comfort could impart? [thee,
Nothing, *God's* Bleſſing! void of
Our *guide-poſt*, *lantern*, *light!*
By thee alone from terror free,
We range the gloom of night.
This Gripus prov'd, his *fortune*
Amaz'd he view'd the ſky, [mourn'd,
Where, ſo he deem'd, ſtern vengeance burn'd
In every varied die.
Full to his mind each crime it bro't,
In *alphabetic* train,
Aghaſt his eye, the number caught,
Who can expreſs his pain?
Stung by remorſe, his *canvas* purſe,
That one poor *guinea* hid,
He rent with many a bitter curſe,
Unknowing what he did.
As ſome poor bird, whoſe erring feet
The *ſchool-boy's net* detains
In wild affright its death can meet,
By ſelf-inflicted pains:
So by deſpair enclos'd around
Diſtraction ſeiz'd his heart,
Out-ſtretch'd he lay on the cold ground,
Life ready to depart.
As to and fro the needle flies,
Or *weavers ſhuttles* glide,
So panting ſhore and quick he lies,
Till, conſcience-ſtruck, he dy'd.
Then what avail'd thoſe hoards of
Of late old *Joſeph's* truſt? (wealth,
They could not purchaſe eaſe nor health,
Nor dignify his duſt.
This moral then awaits my tale,
Dear gents, its truth regard,
Tho' vice may for a time prevail,
It has its due reward.

4. Reflections. By Mr. D. ROBARTS, of St. Columb.

Omnipotence appears in all
The produce of this earthly ball.
The spring comes on, all nature's gay,
Birds sweetly sing and lambkins play,
The garden, pleasure-ground, and plain,
Are sweetly deck'd by Flora's train.
Next summer following in turn,
Whose noonside heat will scorch and burn,
Save where the zephyrs fan the grove,
Or murmuring gliding *waters* rove.
Now Messrs. *Jack* and *Jo.* combine
To catch the fish with *net* or line.
True as the needle to the north,
The yellow autumn next comes forth,
And in her train a plenteous store
For winter with her visage hoar.
Swift as the *swallow*, cast your eyes,
Canvas the blue etherial skies,
Where the bright Sun attracts our sight,
Diffusing wonder and delight,
And by its warmth enlivening nature
To praise its bountiful Creator,
The moon, the *lantern* of the night
From *twilight* sheds her pallid *light*,
And *guides* the youth unskill'd in *letters*,
To bind the virgins heart in fetters,
Lighting the swains to feed their flocks,
The sailor to escape the rocks.
Thus greatly wise Omnipotence
His various *blessings* can *dispense*
Of goodness, grace and providence,
Shewing that *fortune*, luck, or chance,
Is nothing but man's ignorance.
So tutor'd *well* in wisdom's *school*
Let virtue more than *gold* bear rule.

5. Thoughts on Winter. By Mr. J. BURROW, of Bolronfield.

From the cold north the storms descend;
Netted and *pointed* with snow and hail,
Behold the mute creation bend!
And music's voice forsakes the vale:
Waters and *wells*, in icy chains,
Are now congeal'd and cease to flow;
And *school-boys* on the harden'd plains
Like *shuttles* dart o'er ice and snow.
Woods, groves and bow'rs their foliage yield
Obedient to the tyrant frost,
And all the plants, that grac'd the field,
Deplore their blooming honours lost.
How like the year the life of man!
So shall his hoary winter come,
Death always crops his mortal span,
And calls the wand'ring pilgrim home.

6. To those whom the Cap will fit.

Escap'd from ignorance, nonsense, noise, and strife, [scenes of life,
Well pleas'd I hail those peaceful
Where, *school-boy* like, I us'd my feeble pen. [thought then
Strains above my years, nor once Health's rosy cheek, youth's recent date, [flow'r,
Death's sickle crops alike each
Or soon or late all share one fate
As all must meet a final hour.
No art nor *trade* of highest troft
No *guineas* can the tyrant brave,
Tho' *fortune* smile, the pamper'd duft
Must mingle with the meaneft slave.
From *dawn* of *light* let love and truth,
Like holy *Joseph*, be your *guide*,
For *letter'd* friends, let age and youth [ply'd.
Their *lanterns* keep with oil fup-
Then shall you join your happy friends,
Mid choirs of angels, on that shore,
Where *blessings* reign and sorrow ends,
And pain and anguish are no more.

By Mr. J. WYRILL, of Wistow.

In spleen or cavil's *net* to be entomb'd,
Nor censure dreaded I, nor envy fear'd,
To sing the plough and *shuttle* then my aim.
Fire, air, and *water* [flame!

Enkindled

Enkindled in my breaſt, Diaria knew
What youthand inexperience cou'd do.
Alas for me! O diſmal *twilight!* when
Fate introduc'd me to a ſet of men,
Like *Jacob's* ſons, their *brother* wou'd enthral,
On word and honor never think at all,
Potent to promiſe, impotent to do,
The promiſ'd action; ſafe from ſuch a crew
Kind friendſhip's *lantern* chear'd my devious way,
Her *guide-poſt* ſtill my wandering ſteps will ſtay.
With *letters*, I will *canvas fortune's* ſpight,
And baſe ingratitude ſo bring to *light*.

No hireling, to be bought with ſordid gold
My pen ſpares. But *God's bleſſing* to behold,
With *honeſt* warmth I riſe like ſoar-ing Lee,
In envy's ſpight, in ſpight of calumny!
The *ſmoke-jack* black, true emblem of laſt.
days paſt,
The *honey-moon* I hope of thoſe to write.
Thou great *Rewarder* in eternal light,
Know'ſt that in *earneſt* not in jeſt I
My ſand-box now o'er dirty names I'll throw,
With *pen-knife* 'raſe thoſe paltry ones who know [ward ſhow.
No merit, but their gain or out-

7. Joſeph leaving home. By Mr. G. BRENTNALL, of Normanton.

Joſeph, now you muſt leave your farm
God's Bleſſing keep you ſafe from harm,
Your garden *water well*;
From this dim *twilight* here below
May you to *light* eternal go
Such as no tongue can tell.
May all reverſe of *fortune* find,
You ſtill poſſeſs a virtuous mind,
Not to be bri'd with *gold*;
As the good *ſchool-boy* can't forget
The uſes of the *alphabet*,
He has ſo oft been told.
Let virtue be your *lantern* bright
And *guide* your *net* and *pen* aright,
So every error ſhun,
As *ſhuttle* thro' the *canvas* flies,
May Joſeph ever more be wiſe,
And ſtill the right way run.

8. Spring. By J. T. HUGHES, of Catherſtone.

Well-come ſweet Spring! at thy benign return, [bloom;
The fragrant flow'rs diſplay luxuriant
The fields with verdure deck'd no longer mourn, [fume.
But, fine as *fortune*, ſhed abroad perWhen Winter way'd his deſolating hand, [lay,
Penſive and ſad the tuneful kingdom
But ſwell their throats at thy ſupreme command; [ray!
And, hail with raptures *ſol's* gratifie
Now cleave the *water* bow, the horned race; [air,
In exultation ſmell the wholeſome

The reptile too adore thy ſmiling face
And joyful for thy gen'rous gifts prepare. [year,
Spring muſt depart, revolving every
O *letter'd* youth! my ſolemn dictates mind; [care,
Let reaſon's *lamp* diſpel corroding
And ſhew the place where pure de-*light* you'll find; [bait,
Avoid, like *Joſeph*, pleaſure's golden
Life as a *ſhuttle* flies, O ſhun all guile! [*twilight* late,
That, when old age ſhall bring her
We may receive *Jehovah's* friendly *ſmile*.

9. Joſeph. By Mr. J. BURNS, of Halifax.

Our *Joſeph*, a *ſchool-boy*, can *well*,
On *canvas* fine *letters* ſo throw,
Few pen-men his art can excel,
Few painters the myſtery know;
Can pourtray a *guide-poſt* or *ſhuttle*,
A fiſh-*net* in *water* can touch,
A *gudgeon*, a *lantern*, or ſcuttle;
At his age are ſurely few ſuch!
His genius from *twilight* is riſing,
God's bleſſing on *light* ſhines his mind,
For virtue is better worth prizing
Than *fortune* tho' ever ſo kind.

10. Virtue. By Mr. JOB AYRES, of Riccall.

"Come thou, my friend my genius, come along;
O master of the poet and the song,"
Assist, O Muse, in virtue's praise to sing,
Virtue, of *blessings* and of joy the Kind source of comfort! Goddess ever fair!
My *fortune*, *treasure*, at thy service are.
As *water* constant gliding twice a day,
So from thy precepts may I never stray,
But as a *school-boy* diligent pursue
Thy course, my *canvas* sail and rudder too,
May *pens* and *letters* tend to one great aim,
And truth and virtue ever be my fame:
May nature's *light*, and scripture's fairer page
Instruct our youth and animate our age,
Let vice, destructive of thy heav'nly charms,
Be ever silenc'd with its loud alarms.
Be thou our *guide-post* thro' our devious way,
Conduct, as *lantern*, left we go astray.
Nor *nets* nor *shuttles* let us use in vain
But to thy glory every thing remain;
Teach us, like *Joseph*, to resist the wiles
Of subtle vice and Satan's artful toils,
So may we triumph and our joys extend
To future ages until time shall end.

11. On the death of Mr. Moss. By Mr. A. GLENDENNING.

O Death! with cruel tyranny combin'd,
From thy insatiate *net* no stage is free
Thy darts more swift than *shuttles* than thee.
On the wind,
Our *fortune's* such, nothing's more sure than
Infants that just the *dawn* of life have seen,
The child just made his *alphabet* to know,
And those in prime of life, oblig'd have been,
With age as water weak, to bow.
To thee from ingenious *Moss* hast thou
Snatch'd the *quill*, no more,
He, great Minerva's *pupil*, now
He finally has bid the world fare-*well*, deplore.
And science sons in vain his loss
But love and truth sound softly in my ear, applause,
That they his *canvas guided* with
He found them most subservient *lanterns* here, cause.
He, *Joseph* like, was true to virtue's
Whose advocates with diadems are crown'd, above,
Each one is made a king or priest
Where *blessings light* and joy immense are found, love.
With treasures true of happiness and

12. The Villager. By Mr. M. LAIDMAN, of Southampton.

Happy the man who, far from strife,
In shades paternal leads his life,
Stranger to ills that *fortune* brings,
From bed at early *twilight* springs,
Before the cock salutes the morn,
Or hunters sound the echoing horn,
Ere thro' the *canvas shuttles* play,
Or lark salutes the rising day;
By health and vigor taught to toil,
To drive the team, or turn the soil,
Or by his task yon towering oak
Up its tall head beneath his stroke,
Those employ'd, with double force,
I urges on his rapid course,
Of gilding o'er the cloud-top'd tower,
Then, without guide, he measures o'er
The path so often trod before:
By fire or *candle light* made gay,
He sits and chats the night away;
Like *Joseph* faithful to his trust,
Honest himself, thinks all men just,
From bribes and self corruption free,
No *gold* charms him to infamy.
The' *boys* quill versed in *letter'd* lore
Despise the rustic and the poor,
Say *blessings* may be found in *schools*
And weak as *water pen* down rules;
He wisely has the truest wealth,
Possessing competence and health.

13. The

13. The good woman. By Mr. S. LOVATT, Assistant to Mr. *T. Nield*.

A woman once to virtue train'd,
By industry a *fortune* gain'd,
A *guinea* was at first her store,
But *scholar* apt, she soon gained more.
Soon as the *dawn of day* appear'd,
To *wells* of *water* she repair'd,
On *nets* and *shuttles* well employ'd
Her time, and in *God's blessing* joy'd.

No *letters* she on *canvas pen'd*,
But, to her family a friend,
She often woo'd like *Joseph* pray
To God, to *guide* her night and day:
And *light* her *lantern* to pursue
The business she had to do,
And aid her with his wisdom bright,
Her work to finish with delight.

14. The School-boy and Fortune. By Mr. W. WATKINS, of Wylam.

The sun was set, and o'er the *tide*
Pale Luna did the *seaman guide*,
While elves of darkness usher'd forth,
And gave to fickle fancy birth,
When truant *Joe* the *school-boy* flew
Homewards to shun the horrid crew:
Till tir'd with running down he lay,
And snoring slept till *dawn of day*.
When, as but half awake he rises,
As unseen *well* his feet surprizes,
With stumbling block, he tumbled in,
The *water* took him to the chin.
O fortune, Joe then cries, base jade!
This is the *net* that thou hast laid.
But could I lay my hands on thee,

I would revenge thy cruelty.
Here *fortune* swift as *shuttle* flies,
And him with back ward *blessings* plies.
You shameless whelp, pray hold your tongue,
Nor dare to blame me for the wrong,
Had you at school your *letters* read,
And home like others gone to bed,
Your book by *candle-light pen'd* o'er,
In time you might had *guineas* store;
Besides, sound learning, reason, sense,
Had been your future recompense;
Your fault and folly 'tis you see,
Yet wish to lay the blame on me.
She cea's'd and up came Lobin Loor,
Let down a rope and draw him out.

Other ingenious general answers by Messrs. *Bofwell, Cairns, Cowing, Fildes, Hendy, T. J—*, of Sebergham, *Nield, Pegg, Scott*, and *W. B. H.* are reluctantly omitted for want of room.

ANSWERS to the PRIZE ENIGMA, REBUSES, &c.

1. By *T. J.* of Sebergham in Cumberland.

To punish those who give just cause,
A gibbet up they rear,
But they who keep God's holy laws,
No punishment need fear.

Pursuing wisdom's glorious ways,
They on *God's blessing* rest
Their great Creator love and praise
And are in heaven blest.

2. By Serjeant SIMPKIN.

Grant me, *God's blessing* to possess,

The truest source of happiness.

3. By OEDIPUS, of Stockton. On Religion.

Hail! heaven's best lov'd, where-e'er thou deignst to dwell,
With wealth and pow'r, or in the humble cell,
Celestial maid! where e'er thy dwelling be,
With rich or poor, with pomp or misery,

With liberal hand, on my poor suppliant head [*blessings* shed,
Thy cheering smiles, thy boundless
Teach me that better part, my *God* to praise,
And smiling bear me to the throne of grace.

4. An address to Youth. By Mr. R. COCKREL, of Lartington.

Attend, gay thoughtless youth, attend
The dictates of a virtuous friend,
Fly vice, O shun the baneful road,
That Christians leads from Christians God,

A *God* omnipotent that can
Speak life or misery to man
Above *bless'd* seats of joy prepare;
Or doom to mansions of despair.

5. The contented Villager. By Mr. J. Brown, Biggleſwade.

Each morn, ere from my bed I riſe,
I firſt direct my heart
And voice to *God*, who from the ſkies,
All *bleſſings* can impart.
Then to the field by labour led,
I nature's works explore,
To view her bounties round me ſpread,
I reverence and adore
That God, whoſe power is infinite,
Whoſe goodneſs has no bounds,
Whoſe grace protects me, and whoſe might
For ever me ſurrounds.
At eve, the fare my cottage yields,
Gives ſatisfaction ſweet,
When weary'd in the labouring fields,
Unknown to rich and great.
My wife in trouble takes her part,
The equal yoke to know,
Chearful, content with all our heart,
To eaſe each others woe.
No diſcord, nor too anxious care,
Our peaceful breaſts annoy,
But as the morn in praiſe and pray'r
The evening employ.
Our little children ſmiling round
Are a convincing proof,
That true contentment may be found,
Beneath a thatched roof.

6. The Rebuſes. By Mr. T. Nield of Hawarden.

A girl of baſhful *honeſty*,
Her love had caſt on Mr. *Lee*,
She ſaid like *ſmoke-jack* turn'd her brain
As in came *honey-moon* and pain,
She promis'd to *reward* his love,
As *earneſt* as the pow'rs above,
His *ſand-box* conſtantly ſhe'd fill,
And with a *pen-knife* ſcrape his quill.
So Maſter Lee, I pray adviſe,
And tell us if you'll have this prize.

7. By Mr. J. T. Hughes, of Cotherſtone, near Barnard-Caſtle.

O where is *Lee*, Diaria's Bard?
Whoſe merits claim a juſt *reward*,
To whom I *tune* my lays,
Shall we no more his verſes hear,
Which raviſh the attentive ear,
What *pen* can write his praiſe!
With admiration, we peruſe
The flights of his poetic muſe,
So lofty, yet with eaſe,
The *ſmoke-jack* or the *honey-moon*,
By him when ſung depart too ſoon,
So much his trifles pleaſe.
Behold his muſe's thunders roll,
The ſhock is felt from pole to pole,
And *earneſtly* we dread,
Tho' when he paints the tale of woe
His numbers ſympathizing flow,
To raiſe the drooping head.
May he again diſplay his pow'rs,
And eaſe the tedious irkſome hours,
Alas! which oft attend,
A trifling *ſand-box* we ſhou'd love,
If he again but deign to prove
Diaria's conſtant friend.

Room will not admit of the ingenious anſwers by Meſſrs. *Ayres, Baker, Brentnall, Burrows, Cavil, Daviſon, Edwards, Fildes, Glendenning, Hendy, Laidman, Lovat, Mellanby, Murray, Pegg, Roberts, Savage, Tweddle, Ward, Watkins*, and *Youle*.

New ÆNIGMAS to be anſwered *next* YEAR.

1. ÆNIGMA 529, by Mr. John Ward, of Hinckley.

Dear ſirs, a youngſter now in age
Attempts to tread Diarian ſtage;
I name a day, my mandates ſend,
When auditors in droves attend:
Then I deſcant, in loud orations,
On gaming, want or pride of nations.
Duel to tell, my bread I get
others loſs or death or debt;
faſhionable follies feed for,
I bring, to ſhew what I am good for;
In my profeſſion ſtrive to ſhine,
Like any lawyer or divine:
All force I ſhew, and ſtrength and
That oratory can require:
Subjects my pen, words, care em-
Of grief, that bring my audience joy.
Smiling they eye my waving hand,
That all attention can command.

And

And shouts I raise in my vocations.
Like *Pitt* or *Fox* in their orations.
Tho' politics or parties' name
I leave, nor others minds inflame;
Yet spendthrifts, misers, beaux, my story
Attend, and coxcombs whig and tory
So, sirs, declare my name and station,
And take my falling approbation.

2. ÆNIGMA 530, by Mr GEO. BRENTNALL.

A letter'd friend of comely grace,
The tiptop of the human race,
Has been compared with the rose,
Allow'd the sweetest flow'r that grows;
So high in station, you must know,
Leaving the mightiest kings below,
Tho' there be some perhaps that dare
To half his mighty worth compare,
Yet in nobility you'll find,
He leaves some sixty times behind.
If some may boast of higher race,
Yet none can shew a fairer face.
By him invited to a feast,
You're sure to be a welcome guest;
Now if you don't him plainly see,
You're surely not so bright as he;
And, tho' so mighty and so great,
You've neither cause to fear nor hate,
Nor let distressing sighs ascend,
For he's your servant and your friend.

3. ÆNIGMA 531, by Mr. W. BOSWELL, of Ricall.

In the dark womb of this terrestrial ball,
My substance came from him that governs all:
It matters not at this time to declare
The scorching torments it's been forc'd to bear,
Till fluid mace, when I myself display,
To freely serve mankind by night and day.
Tho' me your servants know their master's will,
Thro' me your fervants know their
Sometimes at taverns I man's wish fulfil.
But how rewarded? I in fetters lie,
Beat by a tyrant, who will me defy;
Tho' loud I cry, yet he no mercy shews,
But grumbling threats still aggravate his blows.
But mark what fondness is display'd by me,
Should you be call'd into eternity,
Perhaps more groans will then spring from my heart,
Than all your friends from whom you're loath to part.
So mind the place where I on high appear,
'Tis to do homage I invite you there,
My duty is to call, yours to attend,
Pray don't neglect, lest dreadful be your end.

4. ÆNIGMA 532, by Mr. D. ROBARTS, of St. Columb.

Ere the Omnipotent who dwells on high,
Form'd the wide concave of th' ethereal sky,
The sun or stars, or fram'd the solid land,
Or grasp'd the roaring ocean in his hand,
Or ere the towering mountain rear'd its head,
Whose summit is with shady groves o'erspread,
Before the purling rill began to play,
And thro' the flow'ry valley cut its way;
Or verdure emerald had cloath'd the mead,
Or odorous flow'rs their various tints display'd,
I his companion in his presence shone,
With bright effulgence round his dazzling throne.
When he gave laws just to the briny deep,
And fenc'd it in with cleits so high and steep,
And bid the raging winds its surface sweep:
I then supreme o'er the vast work presided,
And the Almighty Architect guided.
Whate'er is good or excellent or great,
Within the precinct of this earthly state,
If by a simile, with me compar'd,
Its worth is small, unworthy of regard,
Not so effulgent even light can shine,
In sun or stars, for I'm myself divine.

N.

Nor can the richeſt gems of India's coaſt [ſplendour's loſt.
Compare with me, with me their
Weigh'd againſt me, no value can they claim, [of fame.
I raiſe my favour'd few on wings

Ye ſkilful artiſts, and ye prying ſages,
Whoſe works ſhall live to the remoteſt ages, [fair land,
O ſing my praiſe; ye ſons of this
My favorites only ought to bear command.

5. ÆNIGMA 533, by Mr. JOHN FILDES, of Liverpool.

Let others boaſt they had their birth,
Before old Adam dwelt on earth,
More humble I, nor care nor know
When or to whom my birth I owe.
If form'd by nature clad in green,
By art of ev'ry hue I'm ſeen,
And have one property that's ſtrange,
For things from white to black I change.
When mortals drouſe the time away,
Nor mind the duties of the day,
Such is my pow'r and matchleſs ſkill,
I'd rouſe them, might I have my will.
With coſtly ſpices I abound,
And with the fair a fav'rite found.
Yet ſometimes poiſon I contain,
Or oft in ſtrife and bloodſhed reign,
If you love peace keep me from ſight,
For I in quarrels take delight,
And part the trueſt friends on earth,
Yet am in ſcenes of joy and mirth.
If Damon ſhou'd to Myra write,
To beg that ſhe'd his flame requite,
My food may kind aſſiſtance lend,
Before he can the letter ſend.
When boys in miſchief take delight,
I lend my aid to ſet them right,
And glad the traveller will be,
If he, when tir'd, can meet with me.
The nightly wand'rer from the ſtorm I ſhield, yet faireſt face deform.
With diſcord I ſalute the ear,
The cauſe of many a trickling tear,
In England lately much careſs'd,
Yet generous Britons me deteſt;
If villains take ſome good man's life,
I have been known to hold the knife,
It's ſaid, but then 'tis no ſuch thing,
All evils out of me did ſpring.
Tho' ſeen each ſeaſon of the year,
At Chriſtmas publicly appear;
And belles and beaux whole ev'nings ſit
In me, to laugh at others wit.
Or leading to a *common* end. [friend.
Rogues more than honeſt men be-

6. ÆNIGMA 534, by Mr. M. LAIDMAN, of Southampton.

O ye, whoſe ſkill ſoars far above
The track that pedling poets love,
Sneer not, tho' cloth'd in humble line,
I mix myſelf with ſtrains divine,
Judge not by this my condeſcenſion,
But to my uſes lend attention,
The force of Ganges rapid tide
I curb, and o'er his waves preſide;
And, what's a proof of greater worth,
I ſtand 'twixt ocean and old earth.
Nor think that here my merits end,
For I the letter'd muſe befriend.
How ſweetly ſound, reclin'd on me,
The notes of ſome harmonious Lee!
Again, in cities ſee my name,
Tis there that I'm beſt known to fame.
O'er trade and commerce I preſide,
And ſend my ſlaves o'er Europe wide;
But, as from vice no virtue's free,
I prove a friend to bribery.
Another hint to find my name,
I'm often changing yet the ſame.

7. ÆNIGMA 535, by Mr. R. BARKER, Amcotts, Line.

Ye learned bards, whoſe ample ſkill
Can nature's myſteries reveal,
Attend to me, of humble birth,
And tho' to man of little worth,
Yet *wiſdom* nothing made in vain,
Tot the poor object I contain.
All-wiſe ends I'm bro't to light,
Am a defence by day and night,
Inhabited, and like a tent,
Am mov'd where moſt convenient,
In variegated colours ſeen,
In ſhades or on the verdant green,
One entrance neatly wrought about,
Door none to keep aſſaſſins out,

Seak

Seek ye my tenant to deſtroy?
Him I defend like walls of Troy;
Nor Troy, nor Greece, nor haughty Rome,
Cou'd boaſt of a more curious dome.
The ſubſtance that compoſes me
Peculiar's to myſelf you'll ſee.
Tho' I am found throughout the year,
When ſol returns the north to chear,
I moſt abound on banks and plains,
Or groves, where beauteous verdure reigns.
Am ſuch a feeble humble hut,
That Hodge oft treads me underfoot;
I fall degraded and undone,
My beauty and my ſtrength all gone.

8. ÆNIGMA 536, by W B. H. communicated by Mr. *Brown*.

Gents, now with your kind indulgence,
Hear a uſeful humble ſlave,
One that's really worth your notice
And your patronage may crave.
Throughout England's happy nation,
Every county, every town,
I'm the chief in occupation,
And your happineſs I crown.
Tho' not dreſt in gold nor ſilver,
Silk or diamonds, never mind,
I'm of more intrinſic value,
And more uſeful to mankind.
Only follow my directions,
And with me in labour join,
Healthful body, without ſections,
Peace and plenty all combine.
Were I to lie by neglected,
Want wou'd ſtare you in the face,
Commerce cou'd not be protected,
But to ruin run apace.
Yet for all theſe boaſted uſes,
Know I am a tyrant found,
Rip up my mother with abuſes,
Strew her entrails all around.
Euclid, *Archimede*, or *Moſes*,
Wou'd be puzzled to define
Every part, my form compoſes,
Tho' I'm made by rule and line.
But more to ſay now me diſpleaſes,
Gents, you'll eaſy find my name,
And record my laſting praiſes,
On the wings of deathleſs fame.

9. ÆNIGMA 537, by Mr. T. BRADBERRY.

Huſh'd be each ſtorm, let diſcord ceaſe,
I come an advocate for peace,
Yet hear ſome critic ſneering ſay,
Examples bear the greateſt ſway.
No doubt, nor wou'd I in that fail,
Cou'd I but hope it might avail.
Ordain'd on earth a while to bear,
For erring man inceſſant care,
I'm ſometimes caught by deep deſign
In acts as weak, frail man, as thine.
But hark, the bells melodious ring,
And choirs their loudeſt pœans ſing;
Some act of mine no doubt the cauſe,
That thus their admiration draws,
And well it may, ſince 'tis a ſign,
I'm more than mortal, I'm divine.
Array'd in white, truths from above
To man I bring of peace and love.
In ſable veſtments clad, beware,
Leſt I ſhould drive you to deſpair.
Behold yond culprit, hapleſs youth,
He broke the laws of love and truth;
Compell'd before my face appears,
Oppreſs'd with doubts and boding fears:
I heal the breach, and urge ſome fair,
To make the youth her conſtant care.
Thro' life, at death my pow'r extends,
And there the mortal aid all ends.
Yet after death, I can prevail,
Bear witneſs *Rome* with many a tale.
For all theſe labors, what my gains?
Few thanks I get for all my pains.
Some rights I claim, if they be try'd,
How many are againſt my ſide!
Tho' hard my lot, yet gents, 'tis true,
So till next year I bid adieu.

10. ÆNIGMA 538, M. J. T. HUGHES, of Cotherſtone.

Let Xenophon of Cyrus boaſt no more,
Nor Cæſar's praiſes ring from ſhore to ſhore;
Let Homer's lays ſublime no more delight,
For we excel his heroes in the fight.
Like us indeed they glorious trod the field,
But conquer'd always were compe to yield;

Bold and courageous, in our poſt we ſtand,
A numerous diſciplin'd well-order'd band,
Sometimes in orbs we ſkim the level plain,
And load ourſelves with trophies of the ſlain,
Or in a phalanx boldly move along,
And with ſhrill clamour tune the martial ſong;
The antients ſay, that Alexander's hoſt
Of their atchievements paſt, were wont to boaſt,
Had we been there, to ſhew our mighty ſkill,
We'd done our parts, if not againſt their will.
But to relate our parents woes, might ſhock
A heart obdurate as a flinty rock.
O parent! how thy cries kind aid implore!
To ſee thee dying, weltering in gore!
To ſee thee in a cauldron meet thy doom,
Suff'ring the horrors of a watry tomb!
Torn from thy body by man's cruel hand,
We're forc'd to fight his battles at command,
And leſt deſertion ſhou'd pervade our race,
We're bound in chains to keep us to our place;
Sometimes thro' lenity, in hempen nooſe
They bind us faſt, unable to get looſe,
Then in battalions, we our form diſplay,
Of equal height, equal in arm'd array,
No lofty *Ajax* tow'rs above the reſt,
For with no chief commander are we bleſt.

11. ÆNIGMA 539. By Mr. A. GLENDENNING, of Collercotes.

Your humble ſervant. It is ſaid
No man cou'd live without my aid,
The fiſh wou'd periſh, fowls that fly,
And herds that graze the field wou'd die.
To me the peſtilence gives place,
The plague oft flies before my face,
The mildews own my ſov'reign hand,
The waſting locuſts my command.
When paſſion boils in Neptune's blood,
And to the clouds he heaves the flood,
I'm his vicegerent o'er the deep,
My wand can ſwell the ſurges ſteep,
The Cretan bulls diſgorged flame,
Whence Pallas had her birth and name;
But ſay what pow'r 'tis lends me wings,
Or whence your moſt obedient ſprings?
Like martial muſic, lo! I riſe
To blend my fury with the ſkies;
Anon, like ſtrains from Laura's lyre,
I ſoftly languiſh and expire.
When thund'ring engines ſhower fate,
And deaths on buzzing bullets wait,
Unaw'd, I take an active part,
And oft the foes intention thwart.
Avaunt, ye ſophs, nor turncoat deem
Me, every nautiſt muſt eſteem;
Ye carping critics, ſpare your ſpite,
As ſterling worth will worth invite.
A frown or ſmile to me's the ſame,
I'm deaf to ſycophantic fame,
A fund of philoſophic lore:
Ye prying few, my name explore.

12. ÆNIGMA 540, by Mr. J. WYRILL of Wiſtow.

Behold the ſtrangeſt thing in nature,
Without dimenſion, form, or feature,
More ſtrange in ev'ry place I am.
Yea ere this world from nothing came
I'd being, if I ſo may call
Ideal matter—prov'd to all
To have exiſtence—aye, pray where?
Well without jeſting, gents, I'm here.
We're in the dark yet. So am I:
But raiſe imagination high,
And ſoar thro' ev'ry diſtant ſphere,
Then ſure I am you'll find me there.
I went with NEWTON hand in hand,
Eumenes too can underſtand
My properties, and all the reſt
Are to his ſearching eyes conſeſt.
You ſage, whoſe inſtruments around
Beſpeak that he has lately found
My habitation, will declare I'm ſomething, nothing, here, and there.

Relations

Relations I've a numerous race,
But they're confin'd to time and place,
Nor time nor place can me confine,
Boundleſs infinity is mine.
All arts and ſciences we aid,
In dreſs and faſhion ſtand diſplay'd,
Tho' harmleſs, yet by force impel'd,
My relatives have left the field
Impurpled o'er with human gore,
Then waited on th' induſtrious poor,
Have ſcreen'd their limbs from wintry ſtorms,
And kept them ſafe from various harms.
And more, my relatives are here,
Never in front, but flank and rear.

13. ÆNIGMA 541, by Mr. J. DAVISON, Newcaſtle upon Tyne.

When Phœbus, riſing from the briny deep,
Gilds the bright morn, and chaſes ſloth and ſleep,
The lowing herds range o'er the dewy lawn,
And birds with ſprightly notes ſalute the dawn,
Then with th' induſtrious farmer I ariſe,
And toil till Sol has left the weſtern ſkies.
When mighty Marlbro', clad in ſhining arms,
Thro' the affrighted world ſpread war's alarms,
I taught his ſoldiers ſkill, and gave them pow'r
To conquer armies, and all toils endure;
Yet tho' amid wars hoſtile ranks I'm ſeen,
I often ſport with *Sylvia* on the green,
In mirthful innocence, at cricket play,
And ſometimes give to holy pray'r a day.
At Chriſtmas ſchool-boys always deal with me;
And oft with pretty miſſes, you may ſee
My good effects, a gracefulneſs and air,
I give indeed, when us'd, to all the fair;
Can dancing teach, and make the finger move
Quick on the ſpinnet to the ſtrains of love.
I ſerve the mem'ry, and when youth apply
To ride and fence, none helps them more than I.
By me, the blood and juices are refin'd,
The ſalcon diſpers'd and chear'd the gloomy mind:
Whate'er ſtrength miniſters, or blood contains,
Nerves, fibres, tendons, arteries, glands, and veins,
I clear and cleanſe, and give them proper tone:
Oh! would my virtues be but better known!
I with a maſterly phyſician's ſkill,
Can cure a patient, or a ſound man kill!
Phthiſical ſubjects often I relieve,
And ſpirits to the hypochondriac give;
But, us'd exceſſively, I'm found to break
The ſtrongeſt conſtitution, and make weak;
Nay ſometimes I've been known to burſt the heart,
And, with fierce ſtruggles, ſoul and body part.

14. ÆNIGMA 542, by Mr R. HENDY, jun. of Andover.

Stand by! a prophet comes, give place
To one divine and full of grace,
His origin the Muſe diſplays,
To crown him with immortal bays,
Who truth eternal ſometimes ſings,
Or nations fall or riſe of kings,
From paſſion ſprings, and reaſon too,
And from pale envy's hateful crew;
If graceleſs, who'll on me rely,
When I'm no ſooner born than die?
Yet firm as rock for ages ſtand,
Spite of all force man can command,
The captain of fluſh anger's band.
In living tomb ſeven days remain,
Soon as *Mat* ſpeaks revive again;
She and *Philander* hail me fair,
And wiſely handle me with care.
Delicate, brittle is my frame,
Diſſolving, to my maker's ſhame,
And, tho' theſe lovers now agree,
They ſhou'd not make too free with me.
The genius who to fame aſpires,
The youth that ſtrikes the pleaſing lyres,
The ſons of learning noble born,
All know it baſe is me to ſcorn.

Now at elections out I go,
Am made to ſtrike the with'd-for blow.
When doubts ariſe or black deſpair,
Thro' faith, the mind of man I cheers
Fix'd by immutable decree,
Remain, tho' time ſhall ceaſe to be,
Coeval with eternity.

15. PRIZE ÆNIGMA, by Mr. T. BAKER, of Nuneaton.

Kind Gents, no fancy'd fairy craves attention,
Creature of whim, of humour, or invention:
I ſiſter am to three ſuperior kings,
And lo! an eagle, with expanded wings,
Herſelf ſuſtaining in the ambient air,
Is the eſcutcheon, or the arms I bear.—
I have a quartan brother, ſaid in ſtory
To be diſgrac'd, when in the greateſt glory;
For him or for a ſiſter, highly noted,
Fair learning's ſons o'er diſtant ſeas have floated.
So curious ſchool-boys in their playful hours,
Will trace the meadows rich with golden flow'rs;
O'er ſpacious lawns, or thro' the coppice run,
To catch an owl bewilder'd in the ſun.—
As to my kindneſs,—that to emblemize,
Here let the bleeding pelican ſuffice.—
As to my ſiſter, ſhe's an empreſs bright,
And keeps a ſplendid levé morn or night
In open day holding the glittering reins,
She to a foſtering friend in duty leans:
But poets ſing, and ſciolifts profeſs,
That ſhe's an harlot of much wantonneſs;
Yet harmleſs as myſelf, in ſpite of fiction,
She kindly ſmiles, and makes no contradiction.
Sometimes indeed, ſhe, like my pigmy brother,
Gives up her charms or graces to another;
Still ſhe, leſs conſcious than a rural ſwain,
Her beauteous chearfulneſs reſumes again.
One of my brothers is a warrior great,
My higher two are counſellors of ſtate.
And 'tis aſſerted by a boaſting train,
Whoſe art is empty, impotent, and vain,
That tho' far diſtant we in union act,
And tyrant laws of mighty kings exact.
So ignorance, tho' treated with deriſion,
Will have its ſlaves, as well as ſuperſtition.
When wiſdom's empire more expanded grows,
Science divine ſhall ſubjugate her foes;
And, ſhould all things be view'd with reaſon's eye,
Fair truth will live, and ſpecious falſehood die.—
But now ſurvey the riches I impart,
The works of nature or the pomp of art;
In various climes with different beauties dreſt,
I nimbly move, with Zephyr, from the weſt.
And, if you would behold my heavenly charms,
Think that mine handmaid holds you in her arms;

O, how

O, how exalted then shall I appear!
With glowing face, Selene-like and clear;—
But sound my drum, and every doubt defy;
To you what friend can nearer be than I?

NEW REBUSES, &c.

1. By Mr. H. MELLANBY, of Stockton upon Tees.

My first part easily is found,
If you can box the compass round,
A grandson of old father Jacob,
My second part will nearly make up:
O sacred whole! may we revere
Thy holy season every year.

2. By *Serjeant* SIMPKIN.

What dancing men to teach profess,
My first part clearly will express,
Would you my second part explain,
Name sexes of the feather'd train.
My whole a pious man will name,
And Holy Writ records his fame.

3. By Mr. JOSEPH PEGG, of Kegworth.

The rogue, that gives my first, de
My second for his pains (serves
My lovely whole with music sound,
In Heaven for ever reigns.

4. By Mr. J. COWING, of Newcastle upon Tyne.

When fatigue hath exhausted your pow'rs,
And nature seems fairly done o'er,
Do but slip to my first a few hours,
'Twill freshness and vigor restore;
By my other two mankind denote,
How much they each other despise;
Yet, by many, an honor'tis thought,
And they too the learned and wise.
When winter resumes his cold sway,
And frost begins keenly to bite.
My whole, tho' unthought of by day,
Is a welcome companion by night.

5. By Mr. JAMES DAVISON.

Dear son or daughter, whether of the two,
Or both, sweet smiling infant first art thou?
That lost, when Lucia mourns thy pendent shade,
Grief-boding second oft enwraps her head:
Thrice happy state of innocence and peace,
Mild tranquil whole; but ah! too soon to cease.

6. By LAVINIUS, of Lancaster.

Near thrones when party rag'd of yore,
My first was smear'd with human gore,
My next the bleeding victim lay,
While tyrants held usurping sway;
My whole with self-conceit looks grave,
Grasps at what merit ought to have,
And gains, fair ladies, oft'tis plain,
Your charms, while genius sighs in vain.

7. By Mr. J. JACKSON, sen. of Wistow, communicated by Mr. *Wyrill*.

My first on my second's dependent you'll find,
And in circular form will oft move with the wind;
My next is a popular friend to the great,
One that travels the country early and late,
And sometimes entrusted with matters of state.
My whole, if you search all the villages round,
An emblem of dulness is sure to be found,
But if to a court or a palace consign'd,
By art, you will find me there double-refin'd;
Yet there I'm not free from all trouble and strife,
For half of my whole is confined for life.

CXXXI. By *Philocriticus.*

When we read *Acts* ii. 41. of 3000 souls converted and baptized at one time, and *Acts* iv. 4. of 5000 at another time in Jerusalem; and at the Feast of Pentecost, when the extraordinary numbers of people met to keep the festival, must create an extraordinary demand for water to supply the uses they would have for it on common occasions, religious as well as civil: 'tis natural to ask:—Is it possible to conceive that quantities of water, if we suppose many places us'd for the administration of baptism, or, if we could suppose one baptistery served for all, can it be conceived that such a quantity of water could be found in Jerusalem as would be necessary to baptise by *immersion* the numbers mentioned? If they were not baptized by immersion, how were they baptized?

CXXXII. By Mr. *John Lowthian.*

In *Ovid.* Metamorph. i. 6. is this expression '*Lactea nomen habet*:' a grammatical explanation is required?

CXXXIII. By Mr. *J. Cairns*, of Monckton.

Wherein did the sin of *Balaam* consist, as he appears to have obeyed God punctually?

CXXXIV. By Mr. *R. Cockrel*, of Lartington.

Is love always necessary to form a happy marriage?

CXXXV. By Mr. *John Fildes*, of Liverpool.

Whether will sooner be forgotten by his relations; the man who leaves them his property; or he who leaves it to some one else?

CXXXVI. By Mr. *D. Roberts.*

Physicians affirm, that sugar is unwholesome, especially that it destroys the teeth. Is this assertion true or false?

CXXXVII. By *OEdipus*, of Stockton upon Tees.

The English have often been remarked to be more credulous, and easier imposed upon, than those of almost any other nation, particularly, the French, Spanish, or Italian: what reason can be assigned for this?

CXXXVIII. By Mr. *John Thomas Hughes.*

Is the electrical fluid in a chemical sense, after a thorough investigation, absolutely to be denominated *fire*?

CXXXIX. By Mr. *J. Jackson*, of Rudby.

If a person stand upon an insulated stool, holding a wire to touch the prime conductor of an electrical machine, you may, when it is in motion, draw sparks of fire from every part of his body; and though, salamander-like, he may be said to live in a flame of fire, yet he is sensible of no more heat than before. What is the reason of it?

CXL. By Mr. *John Dalton*, of Kendal.

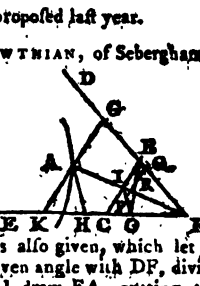
It is usually found that, during a long fall of snow, the thermometer rises or falls to the freezing point soon after the storm commences, and then continues stationary till it is over.—How is this to be accounted

ANSWERS

Answers to the Questions proposed last year.

1. Quest. 650, answered by Mr. J. Lowthian, of Sebergham,

Anal. Suppose the thing done, A the point required, AG, AH having the given ratio, making with FD, FE given in position the given angles AGF, AHF. Let AG produced meet FE in K, then, the angles at H and K being given, the triangle KAH is given in *specie*, therefore the ratio of AK to AH is given, but that of AG : AH is given, hence that of AG to AK is also given, which let be M : N. Draw any where CB making the given angle with DF, divide it in I so that BI : IC :: M : N, through I draw FA, cutting the curve in A, which will manifestly be the point required.



The *Composition*, by Mr. Jos. Youle, of Handsworth-Woodhouse.

From any two points O and Q in the lines EF, DF given in position, draw lines OP, QP making the given angles therewith, take PR to PO in the given ratio, through R draw QB, draw BI parallel to PQ, meeting PO produced in I, through I draw FA meeting the curve in A the point required.

For, draw AH, AG parallel to OI and IB, then because of the parallel lines, as AH : OI (:: AF : FI) :: AG : BI, therefore alternately as AH : AG :: OI : BI :: OP : PR. *q. e. d.*

This question was also answered by Messrs. *Cunliffe, Dalton, Dutt, Garnet, Jackson, Johnson, Kilburn, Mays, Redbarn, Rowe, Sidebottom, Watkins,* and *White.*

2. Quest. 651, answered by Mr. Ja. Cunliffe, W. Houghton.

Make PAP equal to the given vertical angle, and to AP=AP=half the given perimeter of the triangle, perp. to AP, AP draw PO, PO, and about the pole O describe the lesser circle PTP to touch the great ones in P and P, whence set off PD, PD =the given base of the triangle, perp. to AP, AP draw DC, DC, and with the pole C describe lesser circle DtD touching them in D and D. Lastly describe the great circle BTtG touching the two lesser circles in T and t, and cutting AP, AP in B and G, and BAG is the required triangle. For it is well known that AB+AG+BG=2AP the given perimeter, by construction, also AB+AG—BG=2AD, therefore BG=PD the given base, conseq. AB+AG=2AP—PD=the given sum of the sides, therefore BAG is the required triangle.—The distance of the pole of the great circle BTtG from C=a quadrant—DC, and from O=quadr.+PO. Hence, &c. the pole being given the great circle BTtG may be easily described. And in this manner nearly is the answer given by Mr. *G. Barnes*, the proposer.

The same otherwise, by Mr. T. White, of Dumfries.

By Mr. *Wales's* Robertson, art. 243d B. IV. as the versed sine of the supplement of the vertical angle; the sq. of rad.: the difference of the versed sines of the base and sum of the sides: the rectangle of the sines of the sides, which rectangle is therefore given, and the sum of the sides being given, the prob. is reduced to the 38th of Mr. Simpson's Exercises, or the 30th of his Algebra.

In this manner is the answer given by Mr. *Lowthian*; and Messrs. *Dees*, *Jackson*, *Rowe*, *Watkins*, and *Youle*, also gave answers.

3. Quest. 652, answered by Mr. Jos. Garnett, *jun.* Richmond.

Either by the theorem given by Mr. Emerson, at p. 23, of his laws of Chance; *or*, by combining the faces, and finding the number of permutations in each combination, the number of ways will be found to be as below, viz.

Points.	Ways.	Points.	Ways.	Points.	Ways.
6 or 36	1	11—31	252	16—26	2247
7—35	6	12—30	456	17—25	2856
8—34	21	13—29	756	18—24	3431
9—33	56	14—28	1161	19—23	3906
10—32	126	15—27	1666	20—22	4221

21—4332.

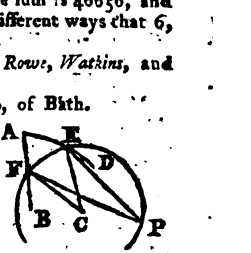
The same answered, by Mr. J. Youle, of Sheffield.

Let $1+s+1+1+1+1=6$ be involved to the 6th power, and we have 1, 6, 21, 56, 126, 252, 456, 756, 1161, 1666, 2247, 2856, 3431, 3906, 4221, 4332, 4221, 3906, 3431, 2856, 2247, 1666, 1161, 756, 456, 252, 126, 56, 21, 6, 1, whose sum is 46656, and the several terms thereof respectively shew the different ways that 6, 7, 8, &c. to 36 points, can come up.

It is also answered by Messrs. *Hoskins*, *Rodham*, *Rowe*, *Watkins*, and *White*.

4. Quest. 653, answered by Fidelio, of Bath.

Suppose AB and AD the two given lines, and P the given point. Draw PE and PF to meet those lines in E and F making an angle at P= half that of which the given arch is the measure, and find the centre C of a circle that shall pass through the three given points P, E, F, and it will be that required. For, the arch EF measures the angle FEC=2FPE. And there may be as many such circles found as there may be angles=FPE formed at P to cut the given lines; the *prob.* is therefore unlimited.



Like answers are also given by Messrs. *Dalton*, *Dees*, *Garnett*, *Lowthian*, *Rodham*, *Rowe*, *Watkins*, *White*, and *Youle*.

5. Quest. 654, answered by Mr. J. Sidebottom.

The design of this question, I apprehend, is to reconcile the seeming difference between the *geometrical* and *fluxionary* solutions.

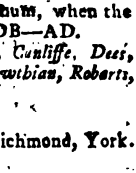
Let AB be the given hypothenuse, and ACB the triangle. It is evident CB—CD will be greatest when C coincides with A, that is when

CD

CD vaniſhes: but in the fluxionary proceſs we make the fluxion of CB *minus* that of CD=O, that is, by ſimilar triangles, as AB : AB—AC :: CB : CB—CD a maximum, but AB is given, therefore the rectangle AB . CB—AC . CB muſt be a maximum, AB . $\dot{C}B$=AC . $\dot{C}B$+$\dot{C}B$. AC, but AC . $\dot{A}C$+$\dot{C}B$. $\dot{C}B$=o, or AC : CB ::—$\dot{C}B$: $\dot{A}C$, conſequently AC . CB . $\dot{A}C$=—$\dot{C}B$. CB . $\dot{C}B$, and AC . AB=AC . AC—CB . CB, which is only poſſible when CB=o, AC=AB and CD=o, confirming the other reaſoning only with the alteration of minimum for maximum. But if reſuming the equation AC . AB=AC . AC—CB . CB we make it equal to AB . AD—AB . DB as it evidently is, we obtain AC=AD—DB, and, if we ſquare each ſide of this equation and reduce it, we ſhall find AC=half AB, becauſe then it is the ſame as AC=DB—AD which is the reſult when the ſum of CB and CD is a maximum, as is eaſily ſeen from what is done above. Or by geometrical reaſoning only ſince CB+CD is half the perimeter of a triangle inſcribed in the whole circle, which it is well known will be a maximum, when the triangle is equilateral, AC=AO=BO=DB—DO=DB—AD.

Anſwers are alſo given by Meſſrs. *Cavill, Cowing, Cunliffe, Dent, Ferdinando, Fletcher, Garnett, Glendenning, Jackſon, Lowthian, Roberts, Rowe, Watkins, White,* and *Youle.*

6. QUEST. 655, anſwered by Mr. J. RODHAM, of Richmond, York.



Since the co-declination *minus* the latitude is a maximum *per* queſt. it follows that the codeclin. + co-latitude muſt be a max. Or in the triangle ZPO, ZO=90°, ZPO=97°½ and ZP+PO a maximum, and ZO being a quadrant, by Simpſon's Trig. cor. laſt. as verſ. ſ. OPH : v. ſ. ZPO :: cof. ZP+PO : cof. ZP—PO which muſt alſo be a maximum becauſe ZP+PO is greater than a quadrant, conſeq. cof. ZP—PO=radius, and ZP=PO. Therefore the perp. PA being drawn, we have in the right-angled triangle ZAP, ZA=½ZO=45° and the angle ZPA=half ZPO, whence ZP=PO is had=70° 8'. 16 conſequently the latitude and declination are each 19° 51'. 84.

The ſame anſwered by Mr. Jos. YOULE.

In the right-angled ſpherical triangle PHO, are given the angle OPH=82° 30' and PO—PH a maximum. By Simpſon's Trigonometry prop. 22nd as cotang. 41° 15' : tang. 41° 15' :: ſ. PO+PH : ſ. PO—PH, therefore that the fine of PO—PH may be a maximum it is neceſſary that the ſ. of PO+PH be a maximum, or PO+PH=90° hence cot. 41° 15' : tang. 41° 15' :: ſ. 90° : ſ. PO—PH=50° 16' 12" and PH=19° 51' 54" the required latitude=the declination.

And thus the anſwer is given by Mr. *Joſ. Garnett.*

Meſſrs. *R. Dees* of Newcaſtle, and *W. Kilburn* of Greenwich, remark, that this queſt. is eſſentially the ſame as queſt. 191, in this Diary for 1759, and to which five true anſwers are given in the Diary for 1760, and expreſs their ſurprize, that Mr. *Hornby* ſhould drop his own character ſo far as to ſteal other peoples works!

Anſwers are alſo given by Meſſrs. *Cooling*, *Ferdinando*, *Fidelis*, *Glendenning*, *Jackſon*, *Hornby*, *Rowe*, *Watkins*, and *White*.

7. QUEST. 656, anſwered by Mr J. COWLING, of Newcaſtle.

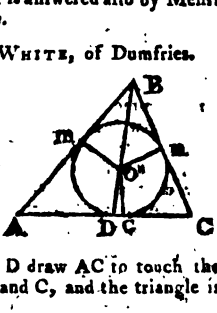
The chance of cutting an honour the firſt deal is $\frac{16}{52}$, and of miſſing three ſucceeding ones is $\frac{36^3}{52^3}$, therefore $16\times\frac{36^3}{52^4}$ is the chance of cutting an honour the firſt, and miſſing the three ſucceeding ones, conſequently $4\times16\times\frac{36^3}{52^4}$ is the chance of cutting one honour preciſely in four deals. Again $\frac{16^2}{52^2}\times\frac{36^2}{52^2}$ is the chance of cutting an honour each of the two firſt deals and miſſing the two laſt, but the number of combinations of 2 things in 4 is 6, therefore ſix times this laſt quantity is the chance of cutting two honours preciſely in four deals; alſo $\frac{4\times36\times16^3}{52^4}$ is the chance of cutting 3, and $\frac{16^4}{52^4}$ the chance of cutting 4, whence $\frac{11664}{28561}$, $\frac{7776}{28561}$, $\frac{2304}{28561}$ and $\frac{256}{28561}$ are the reſpective chances of cutting 1, 2, 3, and 4 honours.

The ſame anſwered by Mr. Jos. GARNETT, *jun.*

If a=the chances for happening, and b=thoſe for failing, the probability of happening at leaſt t times in n trials will by prop. 4. of Emerſ. Laws of Chance, be $\frac{a^n+na^{n-1}b+\frac{n\cdot n-1}{2}a^{n-2}b^2+\&c.\text{ till }a^t}{a+b^n}$, and by *cor.* 2. of the ſame, the probability of happening preciſely t times in n trials is $\frac{T}{a+b^n}$, where T is that term of the numerator above wherein the index of a is t. Now the numerators above expreſs the chances for happening, and the denominators *minus* the numerators the chances for failing, or, $a^n+na^{n-1}b+\frac{n\cdot n-1}{2}a^{n-2}b^2+$ &c. to T whoſe ſum call m, then m and T are the chances for happening at leaſt and preciſely, t times, alſo $a+b^n-m$ and $a+b^n-T$ are the chances for failing at leaſt, and preciſely, t times. Whence, in the preſent caſe, a being $=4$, $b=12$ and $n=4$, t being ſeverally expounded by 1, 2, 3 and 4; we ſhall have 22000, 9336, 2560 and 256 the reſpective chances of cutting at leaſt, 1, 2, 3, and 4 honours in one round: and 11664, 7776, 2304, and 256 of cutting ſo many preciſely. Theſe being ſeverally taken from 28561 will give the reſpective chances for failing:

failing: and conseq. the odds. And thus it is answered also by Messrs. *Redham*, *Studie*, *Watkins*, *White*, and *Youle*.

8. QUEST. 657, answered by Mr. T. WHITE, of Dumfries.



Let ABC be the triangle, BD the given bisecting line, draw the inscribed circle whose centre is O and points of contact *m*, *n*, *c*; then it is well known that the circle's centre is in BD, and that Bm = Bn = half the given difference mentioned in the question, but the angle at B is given, therefore *m* and *n* are given points, draw *m*O, then O is a given point; about which, with Oc = On radius describe a circle, through D draw AC to touch the circle in *c*, and intersect BA and BC in A and C, and the triangle is evidently determined.

Limit. If OD be less than On the thing is manifestly impossible, and also when *m*O and Oc make one streight line.

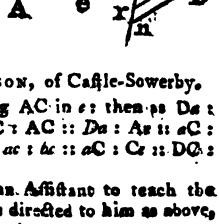
The same answered by Mr. W. KILBURN, of Greenwich.

Make ABC the given angle, which b sect with the given line BD, take Bm and Bn each equal to half the given difference of the sum of the sides and base, draw *m*O perp. to AB meeting BD in O, with the centre O and radius *m*O describe a circle, through the extremity D of the given bisecting line draw AC to touch the circle in *c*, then will ABC be the triangle.

For ABC is the given angle and bisected by the given line, therefore *m*O = *n*O = Oc, Am = AC and Cn = C*c*, AC = Am + C*n*, Bm + Bn = 2Bm = AB + BC — AC the given difference by construction. *q. e. d.*

Geometrical answers are also given by Messrs. *Cavill*, *Cunliffe*, *Dalton*, *Ferdinando*, *Fidelio*, *Garnett*, *Glendenning*, *Gough*, *Hampshire*, *Holt*, *Jackson*, *Lowthian*, *Robarts*, *Rodham*, *Sidebottom*, and *Youle*. And algebraical ones by Messrs. *Coving*, *Dees*, *Johnson*, *Rowe*, and *Watkins*.

9. QUEST. 658, answered by Mr. J. HAMPSHIRE, of London.



Let the lines be drawn as *per* question, and from *a* and D parallel to AB, draw *ar* and Dn to BC produced in *r* and *n*. Then, by constr. and Euel. 5. 19. D*a* : A*b* :: DC : AB :: C*r* : *b*B, and by altern. and sim. triang. CD : C*a* :: D*n* : *ar* :: AB : *b*B; again, DC : AC :: D*n* : AB :: *ar* : *b*B :: *ca* : *bc*, or, *ac* : *bc* :: DC :: AC.

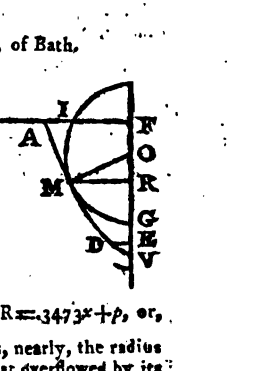
The same otherwise by Mr. T. WILKINSON, of Castle-Sowerby.

Through *b* draw *be* parallel to BC cutting AC in *e*: then as D*a* : DC :: A*b* : AB :: A*e* : AC, therefore DC : AC :: D*a* : A*a* :: *a*C : *e*C, but by reason of the parallels BC, *be*, as *ac* : *bc* :: *a*C : C*e* :: DC : AC. *q. e. d.*

N. B. Mr. *Wilkinson* wishes to engage as an Assistant to teach the Mathematicks, and will answer any Letters directed to him as above, to be left at Mr. *Follie's*, Carlisle, Cumberland.

Many ingenious answers were also received.

10. QUEST. 659, anſwered by FIDELIO, of Bath.



Suppoſe ADEF to be half the veſſel, IFGM half the immerſed ſegment, and from their contact M draw MR perpendicular to the axis, MO a radius of the globe which being perp. to the curve, it is well known that OR=the ſemiparameter of the parabola. Let OR=p=7.3333, c=32=AF, x=OM=OG the radius of the ſphere then by a known property of the ſphere, GF=1.3473 x, nearly, conſequently FO=.3473 x. Now, per conics, as 2 p : AF +MR :: AF—MR : FR=$\frac{c^2+p^2-x^2}{2p}$=FO+OR=.3473x+p, or, x^2+5.0937x=970.2227, ſolved x=28.7 inches, nearly, the radius of the globe. Whence the quantity of water that overflowed by its immerſion=263.5 ale gallons, nearly.

The ſame, anſwered by Mr. Jos. GARNETT, *jun.* Richmond.

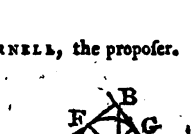
To find the ratio of FG the height of the part immerſed=x to MO=OG=a, the radius of the globe, we have, by menſuration, $x^2a-\frac{x^3}{3}=a^3$, and $\frac{x}{2a}$=.673648=n.

Now, let a=32=AF, b=12=DE, d=60=FE, complete the parabola and let V be the vertex, and VE=m, VR=x, then by conics (VE) m : (DE²) b^2 :: (VF) $m+d$: (AF²) a^2, hence $m=\frac{b^2d}{a^2-b^2}$, alſo m : b^2 :: x : MR²=$\frac{b^2x}{m}$=2OR×x per *conics*, hence $\frac{b^4}{4m^2}+MR^2=MO^2=\frac{b^2}{4m^2}\cdot\overline{4mx+b^2}$, and OF=VE+FE—OR—$x$=$c-x$, MO=OG and FG=2OM×$n$=$\frac{nb}{m}\sqrt{4mx+b^2}=\frac{b}{2m}\sqrt{4mx+b^2}$ $+c-x$, let r=2n—1 and $z-x=\frac{rb}{2m}\sqrt{4mx+b^2}$, x=$\frac{2cm+r^2b^2\pm rb\sqrt{r^2b^2+4cm+b^2}}{2m}$=52.5163, OG=28.706, and 57.412 =the diameter of the globe, hence ⅔ of its ſolidity=263.51 ale gallons, the quantity that flowed over.

Anſwers are alſo given by Meſſrs. *Cunliffe*, *Dees*, *Jackſon* of Rudby, *Rodham*, *Rowe*, *Wade*, *Watkins*, *White*, and *Youle*, nearly according to one or other of the above anſwers.

11. QUEST.

II. QUEST. 660, answered by Mr. N. PARNELL, the proposer.



In the indefinite line AE, take DE the given difference of the perp. and diam. of the inscribed circle, BD a mean proportional between DE and the given sum of the perimeter and perpend. on EG=half BE constitute a square FBGO; with OG radius describe a circle FGH, and with BD radius an arc DD, then draw AC a tangent to these two circles, meeting BF, BG produced in C and A, so shall ABC be the triangle required.

Demonstr. For $\overline{AB+BC+AC+BD} \cdot DE = \overline{2AC+2BF+BD} \cdot BD - 2BF = 2AC \cdot BD + 2BF \cdot BD + BD^2 - 4AC \cdot BF - 4BF^2 - BD \cdot 2BF = BD^2$, (because $2AC \cdot BD = \overline{AC+BF} \cdot 4BF$) and by construction $BD^2 = DE$ into the given sum of the perim. and perp. wherefore $AB+BC+AC+BD$ is the given sum, and the rest is obvious *per* construction.

Corol. In any right-angled plane triangle, the rectangle under the sum of the perimeter and perpendicular to the longest side, and the difference between the said perpend. and the diam. of the inscribed circle, is equal to the square of the said perpend.

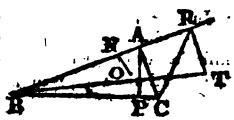
The same answered by Mr. T. WHITE, of Dumfries.

Geom. Anal. Let CBA be the triangle, O the centre of the inscribed circle, F G points of contact, and BD the perpendicular. By the quest. $2CA+2FO+BD$ is given=A; but the space $2CA+2FO \cdot \frac{1}{2}FO$ is=the space $2CA \cdot BD$, but $2CA = A - 2FO - BD$, $A - BD \cdot 2FO = A - 2FO - BD \cdot BD$, but by the quest. $2FO = BD - B$ (B being the diff. mentioned in the quest.) therefore $\overline{A-BD} \cdot \overline{BD-B} = A + B - 2BD \cdot BD$, hence $A - BD : BD :: A + B - 2BD : BD - B$, or $A : BD :: A - BD : BD - B$, consequently $A : BD :: BD : B$, *ergo solutum*. *Constr.* Take BD a mean proportional to A and B, FBG a right angle, BF=half BD−B, FO=BF perp. to BF, with FO radius describe a circle, and with BD an arc, draw a line CA to touch the arc and circle, and to cut the legs of the right angle in C and A, and the thing is done.

The same, answered by Mr. J. JACKSON, of Rudby.

By Simpson's Algebra, p. 266, 3d ed. $AB+BC-AC=2FO$, or $AB+BC=AC+2FO$, but $2FO$+the given diff. D=BD, and the given sum $S = AB+BC+AC+BD = 2AC+2FO+2FO+D$, or $S-D = 2AC+4FO = 2BC+2BA$, hence the sum of the legs being given together with the vertical angle and the sum of the perp. and base, the triangle may be constructed. See *Lawson's* Synopsis.

Otherwise, by Mr. J. Gough, of Kendal.



Constr. Take 2S=the given sum, and 2Q=the given difference, BR=S—Q, RT perp. thereto, to which apply BT=S+Q; let RC bisect the angle ART, to which apply BC=BT—RT, draw CA perp. to BR, and BAC is the triangle.

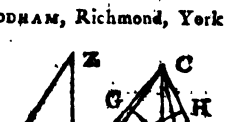
Demonstr. Draw AP perp. to BC, and ON the radius of the inscribed circle, then by constr. BRC=half the right angle BRT, therefore AR=AC, BR=AB+AC, BT=BC+AP, $BT^2=BC^2+2BC.AP+AP^2=BR^2+RT^2=AB^2+2AB.AC+AC^2+RT^2=BC^2+2BC.AP+RT^2$, because AB.AC=BC.AP, conseq. RT=AP and BC+AP=BT; but 2NO=2NA=AB+AC—BC=BR+AP—BT, therefore AP—2NO=BT—BR=2Q, and BT+BR=2S.

Scholium. If BT—RT be greater than a perp. from B upon RC the quest. admits of a double construction, if these quantities be equal it admits but of one, if the former be less it is impossible.

Elegant geometrical answers are also given by Messrs. *Cunliffe, Dalton, Garnett, Hampshire, Kilburn, Lowthian, Rodham*, and *Wilkinson*. And algebraical ones by Messrs. *Cavill, Dees, Glendenning, Johnson* of Newcastle, *Roberts, Rowe, Watkins*, and *Yule*.

12. Quest. 661, answered by Mr. J. Rodham, Richmond, York.

Construction.



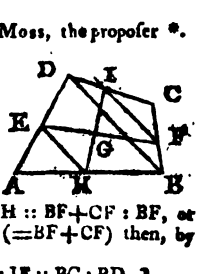
Let the given rectangle=a square whose side is M, and, for the sake of brevity, the rectangle under the two given differences =one whose side is N, take DE and DF=the differences given, make RT=one leg of a right-angled triangle whereof the hypoth. and other leg are DE and DF, on RT constitute, by *D'Omerique* Anal. Geom. 3 37. a right-angled triangle RTZ such that RZ.ZT may be equal to M.2N a given rectangle, make EC=RZ and CF=ZT, upon the middle of which at G and H perpf. being drawn cutting the base in E and A, and AC, BC join'd, ACB is the triangle required.

Demonstr. Draw CD, then $EC^2-FC^2=(RZ^2-TZ^2$ *per* Eucl. 47. 1)$=RT^2=$(constr.) DE^2-DF^2, by Simpson's Geom. 9. 2. CD is perp. to EF whence BC (or BE)—BD=DE and AC—AD=DF the given differences, also by constr. EC.FC=2N.M, and by similar triangles DE : EC :: EG=half EC : EB=BC, also, DF : FC :: FH =half FC : AF=AC, compoundedly, DE.DF : EC.FC :: one fourth EC.FC : BC.AC, *i.e.* $N^2 : 2N.M :: \frac{1}{4}N.M : BC.AC=M^2$. *q. e. d.* When E and F are both on the same side of D the construct. is the same, or in all cases there are two triangles answering the condition.

Elegant

Elegant geometrical anſwers are alſo given by Meſſrs. *Cunliffe, Dalton, Gough, Hampſhire, Lotorbian, Parnell, Wilkinſon*, and *White*: algebraical ones by Meſſrs. *Cavill, Colwing, Dees, Garnett, Glendenning, Jackſon, Jobnſon, Rowe*, and *Toule*.

13. QUEST. 862, anſwered by the late Mr. Moss, the propoſer *.



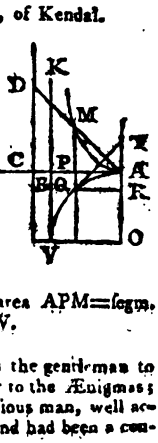
Let E, I, F and H be the four given points of diviſion, draw the right lines EH and IF, and alſo EF and IH, interſecting each other in G, and draw the diagonal BD: Then (by hypotheſis and Euclid. 3. 6.) IF and EH are parallel to the diagonal BD, and ſince AH : EH :: BF : CF (:: $m : n$ by *hyp.*) we ſhall therefore by compoſition have AH+BH : AH :: BF+CF : BF, or inverſely, AH : AB (AH+BH) :: BF : BC (=BF+CF) then, by ſimilar triangles we get

CF : BC :: IF : BD
AH : AB (:: BF : BC) :: EH : BD. } or { CF : IF :: BC : BD. / BF : EH :: BC : BD. } and

by equality EH : IF :: BF : CF (:: $m : n$); but becauſe of the parallel lines EH and IF, the triangles EGH and FGI are ſimilar, and therefore EH : IF :: EG : FG, whence, by equality, EG : FG (:: BF : CF) :: $m : n$ (above); and moreover by ſimilar triangles HG : IG :: EG : FG :: $m : n$. Q. E. D.

And thus nearly is the demonſtration given by Meſſrs. *Cunliffe, Dalton, Dees, Garnett, Glendenning, Gough, Hampſhire, Kilburn, Lowthian, Parnel, Robarts, Rodham, Rowe, Sideboltom, Watkins, White, Wilkinſon*, and *Toule*.

14. QUEST. 863, anſwered by Mr. J. GOUGH, of Kendal.



Draw TO perp. to AC in A in which take $n : 1$ :: AC : AO, from O as a centre deſcribe the quadrant AQV, from M draw MP perp. to AC meeting the circle in Q draw the tangent QT, and QR parallel to AC, then CA : PA :: AD : AM, AM : CD : $1 : n$, and $\frac{1}{n}$. CA=AO : PA=QR :: AD : CD, therefore the triangles QOR, ACD and APM are ſimilar, conſeq. OR : RQ :: AP=RQ : $\frac{RQ^2}{OR}$=PM=the ſubtangent TR, but AP×PM=QR . RT=AR . QR therefore the area APM=ſegm. AQR; conſeq. it can never exceed the quadrant AQV.

* I fear I may take it for granted, that this is the gentleman to whoſe death Mr. *Glendenning* alludes in his anſwer to the Ænigmas; if ſo, I am very ſorry for it, as he was a very ingenious man, well acquainted with mathematics and mathematicians, and had been a contributor to this Diary, at times, for 49 years paſt.

Scholium

Scholium. The curve is a line of the 4th order, having four ſimilar infinite legs, two on each ſide of AC which the curves touch in A above and below; if from A, AB be ſet off=AO, BV produced will be an aſymptote, parallel to which there is another, equally diſtant from A, and on the contrary ſide of it. The ſpace contained under the four legs, and two aſymptotes is equal to a circle whoſe radius is AO.

The ſame anſwered by FERDINANDO.

Put AC=a, AP=x, PM=y, then $x : y :: a : \frac{ay}{x}$=CD, $x^2+y^2=$ $AM^2 : \frac{a^2y^2}{x^2}$ it by the prob. $1 : n^2$, hence $y=\pm\frac{nx^2}{\sqrt{a^2-n^2x^2}}$ the curve's equation, wherein when $a=nx$, y is infinite, and a right line parallel to MP at a diſtance=$\frac{a}{n}$ from A will be an aſymptote, the curve will croſs an ordinate made at the diſtance a therefrom, when n is leſs than unity: for y then=$\frac{na}{\sqrt{1-n^2}}$ is a finite quantity, and the aſymptote is then beyond C. Since y may be either poſitive or negative, the ordinates may be taken either above or below AC, the curve forming a *cuſpis* at A.

Putting $a=nb$, the fluxion of the area is $\frac{x^2\dot{x}}{\sqrt{b^2-x^2}}$, whoſe fluent, by p. 307 of Simpſon's Fluxions, $=\frac{1}{2}b^2A-\frac{1}{2}x\sqrt{b^2-x^2}$=the area, where A=the arc whoſe ſine is $\frac{x}{b}$ to radius unity. When $x=b=\frac{a}{n}$ the ſpace between the curve and aſymptote is $\frac{1}{4}b^2\times$quadrat rad. unity. When $n=1$, the aſymptote is the infinite ordinate erected at C.

Like anſwers are alſo given by *Meſſrs. Cunliffe, Dalton, Dees, Garnett, Johnſon, Parnell, Redham, Rowe, Watkins, White, Woolcot,* and *Youle.*

(15.) QUEST. 664, anſwered by Mr. J. GOUGH, the propoſer.

Caſe 1. When the curve ſurface is ſuch, that, if lines be drawn parallel to the axis from the periphery of its baſe, they ſhall fall without the figure, and form a cylinder whoſe height is equal to that of the fluid.

Now, the centre of gravity of the column of the fluid thus circumſcribed lies in the ſame line with the axis of the given ſurface, that is, in the ſame line with the centre of gravity of the ſolid bounded by the ſurface. Conſequently the preſſure of the whole column in the direction of the given axis=its weight: but the fluid above the ſurface reſts upon it, and the weight of the whole column is to the weight of this part, as the bulk of the whole is to the difference of the whole, and the ſolid bounded by the ſurface; hence it follows that the preſſure parallel to the axis is equal to the exceſs of the weight of the column above that of the ſolid: becauſe the centre of gravity of the fluid ſuſtained by the ſurface is ſituated in the ſame line with that of the whole column.

Caſe

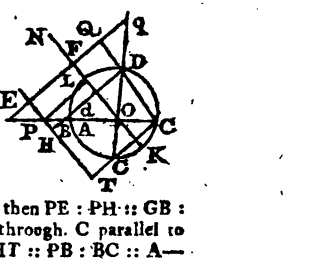
Case 2. When lines drawn from the periphery of the base parallel to the axis fall within the figure, they will circumscribe a part of the included solid consisting of a segment of the same bounded by the vertical part of the curve surface and a plane equal and parallel to the base, together with a cylinder contained between the same plane and the base. Hence we find, by reasoning as in *case* 1, that the pressure parallel to the axis is equal to the weight of a quantity of the fluid, which is supported by the vertical part of the curve surface cut off by a plane equal and parallel to the base.

Coroll. When the height of the fluid is indefinitely great, the required pressure will be very nearly equal to the weight of the column. On this principle experimental philosophers approximate to the weight of the atmosphere, by finding its pressure in exhausted vessels.

Scholium. It will be seen, that the specific gravities of the fluid and included solid are here supposed equal for brevity's sake. And the same method of reasoning may be applied to other figures.

Messrs. *Dalton*, *Lowthian*, *Watkins*, and *White*, also gave answers.

16. QUEST. 665, answered by Mr. T. WHITE, of Dumfries.

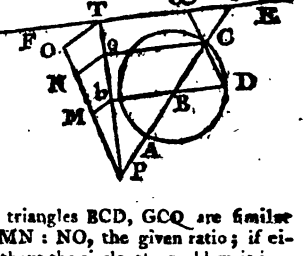


Geom. Analysis. When P is between EF and the circle. Suppose the thing done, i. e. (after drawing the perp. FK through the centre, cutting the circle in K and EF in F, and drawing PL parallel to EF) let QC : CD :: A : LK suppose, then QD : DC :: A—LK : LK :: GB : BC; but by the queſt. CB : BP is given, as B : A—LK suppose, then GB : PB :: B : LK, upon EF drop the perp. EP which is given, let it meet DB in H, then PE : PH :: GB : EP :: B : LK, hence PH is given. Again, through C parallel to EF, and meeting PH draw CT; then, PH : HT :: PB : BC :: A—LK : B, hence TH is given. *Ergo ſolutum.*

Limits. If TC neither cut the circle, nor touch it in K, the prob. is impoſſible; hence then TH is not greater than LK—PH, conſeq. PH : HT is not leſs than PH : LK—PH, but A—LK : B is equal to HP : HT, therf. A—LK : B is not leſs than PH : LK—PH, but PE : B is equal to LK, i. e. PE : B—PE is equal to PH : LK—PH, therefore A—LK : B is not leſs than PE : B—PE, i. e. (by the 5th Lemma of *Pappus* by *Halley*) A—KL : PE is not leſs than B : B—PE; therefore (by 6th Lemma) A—LK : A—LK—PE is not greater than B : PE; then (by Lemma 5th) A—LK : B is not greater than A—LK—PE : PE; i. e. PB : BC muſt not exceed A—LK—PE : PE, or (prolonging KF, take KN=A) BP : BC muſt not exceed FN : FL. *Conſtr.* Drop PE perp. to EF, through the centre O draw KN cutting PL parallel to EF in L; on EP produced take PH : PE :: LK : B, and TH : PH :: B : A—LK, through T parallel to EF draw TC cutting the circle in C and C, or touching it in K, draw DH parallel to EF cutting the circle in *d* and D, through D draw to EF, CQ and C*q*, and the thing is done. As is apparent from the analyſis.

The

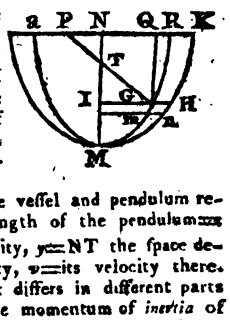
The *Compoſition*, by Mr. J. DALTON, of Kendal.



Let fall PT perp. to FE, from P draw any right line PO, on which take BM : MN in the given ratio of EB : BC, and MN : NO in the given ratio of DC : CQ ; join OT, parallel to which draw No. Mb meeting PT in *o* and *b*, then draw *o*C and *b*D parallel to FE cutting the circle in C and D, laſtly, through C draw PG, DQ, and the thing is done. For PM : MN :: P*b* : *bo* :: PB : BC, and ſince the triangles BCD, GCQ are ſimilar DC : CQ :: BC : CG :: *bo* : *o*T :: MN : NO, the given ratio; if either of the parallels BD, *o*C, fall without the circle, the problem is impoſſible.

Elegant anſwers are alſo given by Meſſrs. *Cunliffe, Dees, Garnett, Gough, Hampſhire, Lowthian, Parnell, Rodham, Sidebottom, Watkins, Wilkinſon*, and *Youle*.

The PRIZE QUESTION anſwered, by Mr. J. DALTON, of Kendal.



The common centre of gravity of the veſſel and pendulum, the centre of gravity of the veſſel, and the diſtance of theſe centres, being analogous to the centre of gravity of the ſegment of the ſphere, the centre of the ſphere, and the diſtance of theſe centres reſpectively in the *prize queſt.* laſt year; the ſolution of that *queſt.* may eaſily be adapted to this, *mutatis mutandis*.

Let *nw* and *w* be the weights of the veſſel and pendulum reſpectively, PT=*f* TG=*nf*, PG the length of the pendulum=$\frac{n+1}{n}\cdot f$, $2g=32\frac{1}{6}$ feet the force of gravity, *y*=NT the ſpace deſcended by the common centre of gravity, *v*=its velocity there. Then abſtracting from the velocity as it differs in different parts or particles of the pendulum, we have the momentum of *inertia* of the whole compound body round the common centre of gravity=$\frac{nw+w}{n}\cdot nf^2$ (=Mq^2 of laſt year's queſt.) hence we obtain $v=\frac{2\sqrt{gy}\cdot\sqrt{f^2-y^2}}{\sqrt{n+1}}$, and $\frac{2n\sqrt{gy}}{\sqrt{n+1}\cdot f^2-y^2}$=the velocity of the veſſel.

Moreover, by ſimilar triangles, as $1 : n+1$ :: the vertical velocity of the common centre of gravity, : the vertical velocity of the pendulum=$\frac{2\sqrt{gy}\cdot\sqrt{f^2-y^2}}{\sqrt{n+1}\cdot f^2-y^2}$, and its horizontal vel.=$\frac{2ny\sqrt{g}}{\sqrt{n+1}\cdot f^2-y^2}$, from which the velocity of the pendulum down the elliptic arc is had=

$\frac{2\sqrt{gy}\sqrt{n+1}\sqrt{f^2-2n+1\cdot y^2}}{\sqrt{n+1\cdot f^2-y^2}}$, and $\frac{\dot{y}}{v} = \frac{\dot{y}\sqrt{n+1\cdot f^2-y^2}}{2\sqrt{gy}\sqrt{f^2-y^2}} =$ the fluxion of the time, and the fluent or half the time of one vibration $= t = \sqrt{n+1} \times$ time of falling freely down the arch of a semi ellipsis from the extremity of its conjugate axis, the semi transverse being $= f$ and the semi conjugate $= f\sqrt{\frac{n}{n+1}}$, or $t =$ the time of falling freely down the elliptic quadrant KM whose semitransverse $=$ the length of the pendulum, and semi-conjugate $= f\sqrt{n^2+n}$, because the times of falling through similar parts of similar curves are in the sub duplicate ratio of their axes.

Corol. 1. The time of vibration is always longer and the velocity less than in the case of a body falling freely down the arc described by the pendulum. For $f\sqrt{n^2+n}$ is greater than nf, which are the semi-conjugate axes of the two ellipses.

Cor. 2. If a body be let fall from K down the arc KM, the moment the pendulum begins to vibrate, their cotemporary positions will always be in the same horizontal line IGH; for $Hn : Gm ::$ the velocity of the falling body : that of the pendulum.

The same answered by Mr. J. Cunliffe, of Westhoughton.

Let RGMa represent the semi-ellipse described by the centre of gravity G of the pendulum, P the centre of gravity of the vessel, and PG a position of the pendulum in motion. Let GQ be perp. to NR, the weight of the vessel $=$ A, that of the pendulum $=$ B, semitransf. NM $=$ PG $= a$, semi-conjugate NR $= c = \frac{Aa}{A+B}$, the velocities of the vessel and pendulum at P and G $= u$ and v respectively, QG $= y$, aP $= r$, RG $= s$, and $g =$ the force of gravity. Then, it is plain that the determination of the relation of the velocities of P and G is a particular case of quest. 582, where the curve FA becomes the horizontal right line aP, $g = o$, $2g$By $= Bv^2 + Au^2$, $v = us$. By the nature of the ellipsis $\frac{Ar}{B} = c - \frac{c}{a}\sqrt{a^2-y^2}$, $\dot{r} = \frac{Bcy\dot{y}}{Aa\sqrt{a^2-y^2}}$; $= \frac{\dot{y}\sqrt{a^4+c^2y^2-a^2y^2}}{a\sqrt{a^2-y^2}}$, which substituted for $\dot{r}$ and $\dot{s}$ in the second general equation give $u^2 = \frac{B^2}{A^2} \times \frac{c^2\dot{y}^2v^2}{a^4+c^2y^2-a^2y^2}$, which put for u^2 in the first equation we obtain $v^2 = 2gy \times \frac{a^4+c^2y^2-a^2y^2}{a^4+c^2y^2-a^2y^2+\frac{B}{A}\cdot c^2y^2}$ and $\frac{\dot{s}}{v} = \frac{\dot{y}\sqrt{a^2-\frac{By^2}{A+B}}}{\sqrt{2gy}\sqrt{a^2-y^2}}$ the fluxion of the time of describing RG, the

fluent

fluent where of is equal to the time in which a heavy body will freely deſcend from reſt down the arch of an ellipſis whoſe ſemi-tranſverſe axis is perp. to the horizon and $=a$, ſemi-conjugate $=a\sqrt{\frac{A}{A+B}}$, and abſciſſa $=NI=y$, and the time of freely deſcribing this ſemi-ellipſe $=$ that of G's deſcribing RGMa.

Mr. *J. Gough* of Kendal, and Mr. *T. White* of Dumfries, alſo gave ingenious anſwers to this queſtion.

Paradox anſwered by Mr. R. Dees, Maſter of St. Nicolas-School, Newcaſtle upon Tyne.

$\frac{3}{3^1\times3^1}$, $\frac{3}{3\times3\times3\times3}$, $\frac{3\times3}{3\times3\times3}$, $\frac{3\times3\times3}{3\times3}$, $\frac{3\times3\times3\times3}{3}$ and $3\times3\times3\times3\times3\times3=3^{\frac{1}{2+3+4}}$, $3^{\frac{1}{27}}$, $3^{\frac{1}{9}}$ 3, 27 and 243 are the ſix numbers in geometrical progreſſion, the common ratio being 9.

And thus the anſwer is given by Meſſrs. *Cunliffe*, *Johnſon*, of Newcaſtle, and *Williams* the propoſer.

The firſt *Prize* of 12 Diaries for the ſolution of the prize queſtion is fallen by fair lot to Mr. *J. Cunliffe*, of Weſt-Houghton, Lancaſhire.

The ſecond of 6 Diaries to Mr. *J. Dalton* of Kendal.

Nine Diaries for anſwering the Pr. Ænig. to Mr. *Joſeph Youle*, near Sheffield. And 9 Diaries for the general anſwer to Mr. *Joſeph Cowing*, of Newcaſtle upon Tyne.

They are deſired to ſend to Mr. Horsfield for them.

New Mathematical Queſtions, to be anſwered in next Year's Diary.

(1.) Queſt. 667, by Mr. D. Robarts, of St. Columb, Cornwall.

A Gentleman, by will, left legacies to his four ſervants A, B, C, and D, proportional to the time each had been in his ſervice, but, in caſe any of them ſhould die before the expiration of the year, their ſhare or ſhares to be divided equally among the others: accordingly B died, and his ſhare ſo divided made the ſhare of C a mean proportional to thoſe of A and D: whereas before A was to have £.78, C £.30, and D £.6. What money did each receive?

(2.) Queſt. 668, by Mr. N. Parnell, of Nuneaton.

Given the three ſides AB, AD, and BC, and the angles D and C of a trapezium, to conſtruct it and find the area.

(3.) Queſt. 669, by Mr. W. Watkins, of Wylam-Engine.

In the ſpring of 1792 in latitude 40°N. when the ſun was due E. I found the difference of his altitude and hour from ſix in degrees equal to 4° 34′; required the altitude, day of the month, and time of the day?

(4.)

(4.) QUEST. 670, by Mr. T. WILKINSON, of Caſtle-Sowerby.

On a given baſe AC, to conſtruct a right-angled triangle ACB ſuch, that if there be taken BD upon the hypothenuſe, and BE upon the perpendicular equal to two given lines; DA : EC ſhall have a given ratio?

(5.) QUEST. 671, by FERDINANDO.

Given the vertical angle, and the lengths of two lines drawn from the angles at the baſe, to biſect and terminate in the oppoſite ſides; to conſtruct the triangle?

(6.) QUEST. 672, by FIDELIO, of Bath.

Given the difference of the ſides, the line biſecting the vertical angle, and the rectangle of the ſegments of the baſe made thereby; to conſtruct the triangle?

(7.) QUEST. 673, by Mr. A. ROWE, of Reginnis.

Given the ratio of the ſegments of the baſe made by the perpendicular as 5 : 3, and the longer of the other two ſides=16 chains, to find the area a maximum?

(8.) QUEST. 674, by Mr. JOHN RODHAM, Land-Surveyor, Teacher of the Mathematics, Drawing, &c. Richmond, Yorkſhire.

Let AB and DE be two right lines interſecting in C and making a given angle; it is required to draw geometrically from a given point P, another right line to cut the two former in F and G reſpectively, ſo that the intercepted part FG ſhall be a mean proportional between the parts CF and CG of the two firſt-named lines?

(9.) QUEST. 675, by Mr. J. CUNLIFFE, of Weſthoughton.

AMB is a circle whoſe diameter is AB and centre C, if on the radius CB as a diameter another circle be deſcribed, and any line ADE drawn cutting this leſs circle in D and E; if from A to M in the periphery of the greater circle AM be applied=AE, and the chord MR be drawn parallel to the diameter AB; I ſay, that as AM : MR :: CB : DE; required the demonſtration?

(10.) QUEST. 676, by Mr. J. LOWTHIAN, of Sebergham.

From a given point P without a circle given in magnitude and poſition, to draw geometrically a right line PDC cutting the circle in D and C, ſo that drawing PL in a given angle to PC, on which taking PB : PD in a given ratio, and drawing BD till it cut a right line EF given in poſition without the circle in Q, BD may be to DQ in a given ratio. Or, 2ndly, drawing PQ, the difference of the triangles BPQ, PDB, may be given. And to ſhew the limits in both caſes?

(11.)

(11.) QUEST. 677, by FERDINANDO.

Two right lines and a point between them being given in position, it is required to draw two right lines from the given point, to terminate in the two first, contain a given angle, and obtain a given ratio?

This question has been proposed before, but not publicly answered.

(12.) QUEST. 678, by Mr. J. Gough, of Kendal.

Two unequal circles whereof the less is not within the greater, being given in magnitude and position, to find geometrically a point in a curve of any order given in position, from which, if tangents be drawn to each circle, they shall be equal?

(13.) QUEST. 679, by SURPLETAR.

Given the two segments of one diagonal made by the other crossing it at right angles, and the angles formed by the sides at each end of the given diagonal, to construct the trapezium?

(14.) QUEST. 680, by Mr. J. CUNLIFFE.

Given the base perpendicular and vertical angle of a spherical triangle to construct it?

(15.) QUEST. 681, by Mr. JOHN DALTON, of Kendal.

Given two weights, W and w, connected by a string, going over a pulley at A, and an inclined plane AC moveable about an axis passing through A; now, supposing the less weight w placed upon the plane at a given distance from A whilst the greater W hangs freely from A; it is required to determine the velocity of the plane such, that W may neither ascend nor descend: also supposing the position of the plane at any instant given, to determine its initial velocity to make W ascend or descend by any given uniformly accelerating force, within the limits of possibility?

(16.) QUEST. 682, by Mr. J. TODD, of Berwick.

The apparent time at London of the conjunction of the sun and moon Sept. 5, 1793, being 11 h. 53 m. A. M. i. e. the time the sun will be ecliptically in the nonagesimal degree, ☽'s lat. 40 m. 10 s. N. A. and her horizontal parallax 53′ 35″; it is proposed to determine where this phænomenon will happen, according to the spheroidical or real figure of the earth, whose axis (from the latest observations) appears to be to its equatorial diameter as 215 to 216 nearly?

PRIZE QUESTION, by Mr. J. FLETCHER, of Liverpool.

From a given point, P, to draw geometrically a right line to cut three others given in position in Q, R and S; so that QR may be to RS in a given ratio?

FINIS.

The LADIES' *Diary:*

OR

WOMAN'S ALMANACK,

For the Year of our LORD 1793;

Being the First after BISSEXTILE, or LEAP-YEAR:

Containing New Improvements in ARTS and SCIENCES,

And many Entertaining PARTICULARS:

Designed for the *Use* and *Diversion* of the

FAIR-SEX.

The Ninetieth ALMANACK Published of this Kind.

VIRTUE and SENSE, with FEMALE-SOFTNESS join'd,
(ALL that subdues and captivates Mankind!)
In BRITAIN's Matchless FAIR resplendent shine;
THEY rule LOVE's Empire by a Right Divine:
Justly their Charms the astonish'd World admires,
Whom *Royal* CHARLOTTE's bright Example fires.

LONDON:
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And sold by ROBERT HORSFIELD, at their Hall in Ludgate-Street.
[Price stitched, TEN-PENCE.]

Y. of Christ.	Ys. since.
1600 King Charles I. born	193
1603 Q. Eliz. died, K. Ja. succ.	190
1603 A great Plague in London	190
1605 Popish Gun-powder Plot	188
1616 Shakspeare the poet died	177
1625 K. James died, Cha. I. succ.	168
1641 Bloody Irish massacre -	152
1642 Sir I. Newton born, Dec. 25	151
1649 K. Charles I. beheaded	144
1658 Oliver Cromwell died -	135
1660 K. Charles II. restored	133
1662 Royal Society instituted	131
1665 Died of the plague 68,586	128
1666 Great fire in London -	127
1666 War against Denmark decl.	127
1667 Peace with Hol. Fr. & Den.	126
1672 War against Holland decl.	121
1672 Halfpence & Farth. coined	121
1674 Peace with Holland procl.	119
1679 Habeas Corpus act passed	114
1685 K. Cha. II. died, Ja. II. succ.	108
1688 Prince of Orange landed	105
1688 K. James II abdicated	105
1689 Wm. and Mary crowned	104
1693 Hackney coaches established	100
1702 K. Wm. died, Q. Ann succ.	91
1702 War against France declared	91
1707 England & Scotland united	86
1713 Peace with France procl.	80
1714 Q. Ann died, K. Geo. I. succ.	79
1715 Rebellion in the north -	78
1716 A very great frost -	77
1726 Sir Isaac Newton died -	67
1727 K. Geo. I. died, Geo. II. succ.	66
1739 War against Spain declared	54
1739 A very great frost -	54
1743 A great comet appeared	50
1744 War against France declared	49
1745 Rebellion in Scotland -	48
1748 A general peace -	45
1750 Westminster bridge finished	43
1752 Date and Calendar altered	41
1756 War against France declared	37
1760 K. Geo. II. died, G. III. succ.	33
1762 American philos. soc. instit.	31
1762 War against Spain declared	31
1763 Peace with France & Spain	30
1765 Otaheite discovered -	28
1770 Blackfriars bridge finished	23
1772 A revolution in Denmark	21
1772 A revolution in Sweden	21
1775 War against America begun	18
1776 America declared independent	17
1778 French treaty with America	15
1778 War against France begun	15
1779 War against Spain begun	14
1780 War against Holland begun	13
1783 A general peace -	19

BIRTH-DAYS, [N.S.] and YEARS, of the ROYAL FAMILY of GREAT BRITAIN.

KING GEORGE III. June 4,	1738
Prince of Wales, August 12,	1762
Duke of York, August 16,	1763
Duke of Clarence, Aug. 21,	1765
Princess Royal, Septem. 29,	1766
Prince Edward, Nov. 2, -	1767
Prs. Augusta Sophia, Nov 8,	1768
Prs. Elizabeth, May 22, -	1770
Prince Ernest Augustus, June 5,	1771
Prince Aug. Fred. Jan. 27,	1773
Prince Adolph. Fred. Feb. 24,	1774
Princess Mary, April 25, -	1776
Princess Sophia, Nov. 3, -	1777
Princess Amelia, Aug. 7, -	1783
Queen Charlotte, May 19, -	1744
Prs. Augusta of Brunsw. Aug. 11,	1737
Duke of Gloucester, Nov. 25,	1743

YEARS of BIRTHS of the Principal SOVEREIGN PRINCES of EUROPE.

Pius VI. Pope - -	1717
Victor Amada Maria, K Sardinia	1726
Catherine, Empress of Russia,	1729
Stanislaus Aug. King of Poland	1732
Maria, Queen of Portugal -	1734
Fred. William, King of Prussia,	1744
Gustavus IV. King of Sweden,	1778
Francis II. Emp. Germ. -	1767
William V. Stadtholder, -	1748
Charles, IV. King of Spain,	1748
Christian VII. K. of Denmark,	1749
Ferdinand IV. King of Sicily,	1751
Lewis XVI. King of France	1754
Selim III. Grand Seignor -	1761

Last Quarter, 5th, 58m. past noon.
New Moon, 12th, 59m. past 8 morn.
First Quarter, 19th, 29m. past 2 morn.
Full Moon, 27th, 34m. past 4 morn.

Sun enters ♒ 18d. 23h. 58m.

1	Tu	Circumcision	8	4	3	56	22	8	57	8 a 39	19
2	W			4		56			52	9 32	20
3	Th			3		57			45	10 35	21
4	F			3		58			39	11 41	22
5	S	*Old Christmas Day*		2		58			32	morn	23
6	F	2 S. aft. Christ, Epiphan.		1		59			25	0 48	24
7	M	*Plow Monday* [*Twelfth-d.*		0	4	0			17	1 57	25
8	Tu	*Lucian*	7	59		1			9	3 8	26
9	W			58		2			0	4 21	27
10	Th			57		3	21	51		5 31	28
11	F			56		4			41	6 35	29
12	S	*Old New-Year's Day*		55		5			31	☽ sets	N
13	F	1 S. af. Epip. *Hila.* Cam.		54		6			21	6 a 1	1
14	M	Dff. Term b. [Te. beg.		52		8			10	7 21	2
15	Tu			51		9	20	59		8 40	3
16	W			50		10			47	9 57	4
17	Th	*Old Twelfth Day*		49		11			35	11 10	5
18	F	Q. Char. b. d. k. *Prisca*		47		13			23	morn	6
19	S			46		14			10	0 20	7
20	F	2 Sun. aft. Epip. *Fabian.*		45		15	19	57		1 28	8
21	M	*Agnes.* Hil. Ter. 1 return		43		17			44	2 30	9
22	Tu	*Vincent*		42		18			30	3 33	10
23	W	Hilary Term begins		40		20			15	4 30	11
24	Th			39		21			1	5 23	12
25	F	Conversion of St. Paul		37		23	18	46		6 7	13
26	S			36		24			31	6 46	14
27	F	Septuag. S. Pr. Aug. F. b.		34		26			15	☽ rises	F
28	M	Hilary 2 return		33		27	17	59		6 a 13	16
29	Tu			31		29			43	7 14	17
30	W	K. Charles I. mart. 1649		29		31			26	8 17	18
31	Th			28		32			9	9 22	19

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	♐ Stars	So.
1	7 52	0 8	5 59	6 1	4 41	4 23″	8 a 42	
6	58	14	57	3	43	6 39		20
11	8 8	24	53	7	46	8 42	7	58
16	20	36	49	11	50	10 29		37
21	34	50	44	16	54	12 0		16
26	48	1 4	38	22	58	13 11	6	55

Laſt Quarter, 4th, 38m. paſt 3 morn.
New Moon, 10th, 26m. paſt 7 after.
Firſt Quarter, 17th, om. paſt 6 aftern.
Full Moon, 25th, 36m. paſt 10 night.

Sun enters ♓ 17d. 14h. 46m.

M D	W D	Sundays, Holydays, &c.	Sun riſes	Sun ſets	Sun's decl.	☽ riſes & ſets	☽'s Age
1	F		7 26	4 34	16s52	10 a 29	20
2	S	Purif. or Candlemas-day	24	36	35	11 . 36	21
3	F	Sexageſima Sunday *Blas*	23	37	17	morn	22
4	M	Hilary Term 3 return	21	39	15 59	0 44	23
5	Tu	*Agatha*	19	41	41	1 53	24
6	W		17	43	22	3 3	25
7	Th		15	45	3	4 ℄	26
8	F		14	46	14 44	5 6	27
9	S	Hilary Term 4th return	12	48	25	5 57	28
10	F	Quinq. or Shrove Sun.	10	50	5	☽ ſets	N
11	M		8	52	13 45	6 a 15	1
12	Tu	Shrove Tueſday Hil. T. e.	6	54	25	7 25	2
13	W	Aſh Wedneſday *Old Ca. d.*	4	56	5	8 43	3
14	Th	*Valentine*	3	57	12 45	9 58	4
15	F	*Cam. Term divides* x.	1	59	24	11 . 10	5
16	S		6 59	5 1	3	morn	6
17	F	Quadr. or 1 Sun. in Lent	57	3	11 42	0 18	7
18	M		55	5	21	1 22	8
19	Tu		53	7	10 59	2 22	9
20	W	Ember Week	51	9	38	3 15	10
21	Th		49	11	16	4 3	11
22	F		47	13	9 54	4 44	12
23	S		45	15	32	5 20	13
24	F	2 Sun. in Le. St. Matthi.	43	17	10	5 53	14
25	M	[Pr.Ad.Fred.b.	41	19	8 48	☽ riſes	F
26	Tu		39	21	25	6 a 10	16
27	W		38	22	3	7 14	17
28	Th		36	24	7 40	8 20	18

Days	L. of D.	Day Inc.	D.breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	9 8	1 24	5 30	6 30	5 4	14′ 10″	6 a 31
6	26	42	22	38	9	36	10
11	44	2 0	14	46	15	41	5 50
16	10 2	18	6	55	21	27	31
21	22	38	4 57	7 4	27	13 56	12
26	42	58	48	13	33	10	4 53

Last Quarter, 5th, 38m. past 2 aftern.
New Moon, 12th, 57m. past 5 morn.
First Quarter, 19th, 37m. past 11 morn.
Full Moon, 27th, 34m. past 3 aftern.

Sun enters ♈ 19d. 15h. 8m.

1	F	*David*	6	34	5	26	7	s 17	9	a 27	19
2	S	*Chad*		32		28	6	54	10	36	20
3	S	3 Sunday in Lent		30		30		31	11	45	21
4	M			28		32		8	morn		22
5	Tu			26		34	5	45	0	52	23
6	W			24		36		22	1	58	24
7	Th	*Perpetua*		22		38	4	58	2	58	25
8	F			20		40		35	3	50	26
9	S			18		42		11	4	35	27
10	S	4th or Midlent Sunday		16		44	3	48	5	14	28
11	M			14		46		24	5	50	29
12	Tu	*Gregory Mart.*		12		48		1	☽ sets		N
13	W			10		50	2	37	7	a 36	1
14	Th			8		52		13	8	49	2
15	F			6		54	1	50	9	59	3
16	S			4		56		26	11	7	4
17	S	5 Su. in Lent. *St. Patrick*		2		58		2	morn		5
18	M	*Edward K. of West Saxons*		0	6	0	0	39	0	14	6
19	Tu		5	58		2		15	1	13	7
20	W			56		4	n	9	2	4	8
21	Th	*Benedict*		54		6		32	2	48	9
22	F	Cam. Term ends		52		8		56	3	25	10
23	S	Orf. Term ends		50		10	1	20	4	0	11
24	S	6 Sun. L. or Palm Sunday		48		12		43	4	30	12
25	M	Annunciation, Lady Day		46		14	2	7	4	58	13
26	Tu			44		16		30	5	21	14
27	W			42		18		54	☽ rises		F
28	Th	*Maundy Thursday*		40		20	3	17	7	a 24	16
29	F	Good Friday		38		22		40	8	34	17
30	S			36		24	4	4	9	44	18
31	S	Easter Day		34		26		27	10	52	19

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	10 52	3 8	4 43	7 28	5 37	12′ 35″	4 a 42
6	11 12	28	32	29	43	11 27	24
11	32	48	21	40	49	10 8	6
16	52	4 8	11	50	55	8 43	3 47
21	12 12	28	0	8 1	6 2	7 12	29
26	32	48	3 48	12	8	5 29	11

Last Quarter, 3d, 32m. past 10 night.
New Moon, 10th, 35m. past 4 aftern.
First Quarter, 18th, 20m. past 6 morn.
Full Moon, 26th, 19m. past 5 morn.

Sun enters ♉ 19d. 3h. 51m.

1	M	Easter Monday	5	32	6	28	4n50	11 a 59	20
2	Tu	Easter Tuesday		30		30	5 13	morn	21
3	W	*Richard Bp. of Chichester*		28		32	36	1 0	22
4	Th	*St. Ambrose*		26		34	59	1 55	23
5	F	*Old Lady Day*		24		36	6 21	2 42	24
6	S			22		38	44	3 22	25
7	F	1 S. aft. Easter. Low Sun.		20		40	7 7	3 56	26
8	M			18		42	29	4 28	27
9	Tu			17		43	51	4 57	28
10	W	Orf. and Cam. T. begins		15		45	8 13	D sets	N
11	Th			13		47	35	7 50	1
12	F			11		49	57	9 3	2
13	S			9		51	9 19	10 8	3
14	F	2 Sunday after Easter		7		53	40	11 9	4
15	M	Easter Term 1 return		5		55	10 2	morn	5
16	Tu			3		57	23	0 5	6
17	W	Easter Term begins		1		59	44	0 51	7
18	Th		4	59	7	1	11 5	1 32	8
19	F	*Alphege*		57		3	26	2 8	9
20	S			56		4	46	2 40	10
21	F	3 Sunday after Easter		54		6	12 6	3 8	11
22	M	Easter Term 2 return		52		8	27	3 32	12
23	Tu	St. George		50		10	47	3 55	13
24	W			48		12	13 6	4 20	14
25	Th	St. Mark. Pr. M. b. 1776.		46		14	26	4 46	15
26	F			45		15	45	D rises	F
27	S			43		17	14 4	8 a 46	17
28	F	4 Sunday after Easter		41		19	23	9 55	18
29	M	Easter Term 3 return		39		21	41	11 1	19
30	Tu			37		23	15 0	11 58	20

Days	L. of D.	Day Inc.	Dibreaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	12 56	5 12	3 33	8 28	6 15	3′ 48″	2 a 49
6	13 16	32	20	41	21	2 18	11 31
11	34	50	6	55	27	0 53	12
16	54	6 10	2 54	9 7	33	0 a 24	1 54
21	14 12	28	40	21	39	1 31	35
26	30	46	23	38	45	2 27	16

Last Quarter, 3d, 25m. past 4 morn.
New Moon, 10th, 31m. past 3 morn. Sun enter
First Quarter, 17th, 53m. past 12 night. 20d.
Full Moon, 25th, 52m. past 3 aftern. 9 h.

1	W	St. Philip and James	4	36	7	24	15	n	18	mor	
2	Th			34		26			36	0	4
3	F	*Invention of Cross*		32		28			53	m	12
4	S			31		29	16	11	2		
5	F	5 or Rogation Sunday		29		31			28	2	3
6	M	*J. Bu. a. P. L.* East. T. 4 re.		27		33			44	3	
7	Tu			25		35	17	1	3	3	
8	W			24		36			17	4	
9	Th	Ascension or Holy Thurs.		22		38			33	4	2
10	F	Easter Term 5; return		21		39			49	☽ sets	
11	S			19		41	18	4	9	a	
12	F	Sun. a. Ascen. *Old May D.*		18		42			19	9	
13	M	Easter Term ends		16		44			34	10	4
14	Tu			14		46			48	11	3
15	W			13		47	19	2		mor	
16	Th	Oxf. Term ends		12		48			16	0	1
17	F			10		50			30	0	4
18	S	[*Dunstan*		9		51			43	1	1
19	F	Whit Sund. Qu. Char. b.		7		53			56	n	3
20	M	Whit Monday		6		54	20	8	2		1
21	Tu	Whit Tuesday		5		55			20	2	2
22	W	Prs. Eliz. b. Ember We.		3		57			32	2	4
23	Th	[*Can. T. div. n.*		2		58			43	3	
24	F			1		59			54	3	4
25	S			0	8	0	21	5	☽ rises		
26	F	Trinity S. *Aug. Abp. Can*	3	58		2			15	8	a 4
27	M	*Vener. Bede.* Trin. T. 1 re.		57		3			25	9	5
28	Tu			56		4			35	10	4
29	W	K. Ch. II. rest. Oxf. Tib.		55		5			44	11	3
30	Th	Corpus Christi		54		6			53	mor	
31	F	Trinity Term begins		53		7	22	2	0		

Days	L. of D.		Day Inc.		D. breaks		T.w. ends		Sun East.		Cl. aft.		S.	
1	14	48	7	4	2	4	9	58	6	50	3	11"	0	
6	15	6		22	1	50	10	12		56		42		
11		22		38		28		34	7	0		58		
16		36		54		4		59		4	4	0	11	
21		50	8	8	0	24	11	41		8	3	48		
26	16	4		22	No real Night					12		22		

Last Quarter, 1st, 33m. past 9 morn.
New Moon, 8th, 17m. past 3 aftern.
First Quarter, 16th, om. past 6 aftern.
Full Moon, 23d, 8m. past 12 night.
Last Quarter, 30th, 14m. past 3 aftern.

Sun enters ♋ 20d. 13h. 10m.

1	S	*Nicomede*	3	52	8	8	22	10	0	m 43		22
2	F	1 Sunday after Trinity		51		9		17	1	10		23
3	M	Trin. Term 2 return		51		9		25	1	36		24
4	Tu	King Geo. III. b. 1738		50		10		32	2	3		25
5	W	Pr. Ernest Augu. b. 1771		49		11		38	2	29		26
6	Th	[*Boniface*		48		12		44	3	0		27
7	F			48		12		50	3	33		28
8	S			47		13		55	☽	sets		N
9	F	2 Sunday after Trinity		46		14	23	0	8	a 40		1
10	M	Trinity Term 3 return		46		14		5	9	27		2
11	Tu	St. Barnabas		45		15		9	10	7		3
12	W			45		15		13	10	42		4
13	Th			44		16		16	11	13		5
14	F			44		16		19	11	38		6
15	S			44		16		21	morn			7
16	F	3 Sunday after Trinity		43		17		24	0	3		8
17	M	*St. Alban.* Trin. T. 4 re.						25	0	24		9
18	Tu							26	0	47		10
19	W	Trinity Term ends						27	1	11		11
20	Th	*Transf. Edw. K. W. Saxons*						28	1	37		12
21	F	Longest Day						28	2	8		13
22	S							27	2	45		14
23	F	4 Sunday after Trinity						27	☽	rises		F
24	M	Na. of St. J. Bapt. Midf. D.						25	8	a 32		16
25	Tu			43		17		24	9	22		17
26	W			43		16		22	10	3		18
27	Th			44		16		19	10	39		19
28	F			44		16		16	11	9		20
29	S	St. Peter		44		15		13	11	37		21
30	F	5 Sunday after Trinity		45		15		9	morn			22

Longest Day at Lond. is 16h. 34m. 46sec. allowing 9m. 16sec. for refraction.

Days	L. of D.		Day Inc.		D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	16	16	8	34		7	16	2′ 35″	10 m 55
6		24		52	No night, but		18	1 45	35
11		30	9	8	constant day		19	0 49	15
16		34		22	or twilight.		20	0 b 14	9 56
21		34		22			21	1 19	33
26		32	odec.	2			20	2 23	13

New Moon, 8th, 33m. past 4 morn.
First Quarter, 16th, 54m. past 8 morn.
Full Moon, 23d, 22m. past 7 morn.
Last Quarter, 29th, 46m. past 10 night.

Sun enters ♌ 22d. 0h. 4m.

1	M		3	46	8	14	23	n	5	0 m	3	23
2	Tu	*Visita. of V. M.* Ca. Com.		46		14			1	0	29	24
3	W	Dog Days begin		47		13	22	56		0	58	25
4	Th	*Transf. of St. Martin*		47		13		51		1	29	26
5	F	Camb. T.e. *Old Midſ. da.*		48		12		45		2	4	27
6	S			49		11		39		2	45	28
7	F	6 Sun. af. Tr. *Tho. à Bec.*		4		11		32		3	29	29
8	M	Oxford Act		50		10		26		D ſets		N
9	Tu			51		9		18		8 a	38	1
10	W			52		8		11		9	9	2
11	Th			53		7		3		9	30	3
12	F			54		6	21	54		10	2	4
13	S	Oxf. Term ends		55		5		46		10	25	5
14	F	7 Sunday after Trinity		56		4		36		10	47	6
15	M	*Swithin*		57		3		27		11	10	7
16	Tu			58		2		17		11	35	8
17	W			59		1		7		morn		9
18	Th		4	0		0	20	56		0	3	10
19	F			2	7	58		45		0	37	11
20	S	*Margaret*		3		57		34		1	17	12
21	F	8 Sunday after Trinity		4		56		22		2	5	13
22	M	*Magdalen*		5		55		10		3	5	14
23	Tu			7		53	19	58		D riſes		F
24	W			8		52		45		8 a	32	16
25	Th	St. James		10		50		32		9	7	17
26	F	*St. Anne Mo. of the V. M.*		11		49		19		9	36	18
27	S			12		48		5		10	4	19
28	F	9 Sunday after Trinity		14		46	18	51		10	32	20
29	M			15		45		37		10	59	21
30	Tu			17		43		23		11	31	22
31	W			18		42		8		morn		23

Days	L. of D.	Day dec.	D breaks	Tw. ends	Sun East	Cl. bef. S.	☿ Stars So
1	16 28	0 6			7 19	3 23	8 m 52
6	22	12			18	4 17	32
11	14	20	No real Night		15	5 1	11
16	4	30			12	34	7 51
21	15 52	42			9	56	31
26	38	56	0 52	11 4	5	6 3	11

New Moon, 6th, 33m. paſt 7 aftern.
Firſt Quarter, 14th, 26m. paſt 9 night.
Full Moon, 21ſt, 46m. paſt 2 aftern.
Laſt Quarter, 28th, 18m. paſt 9 morn.

Sun enters ♍ 22d. 6h. 28m.

1	Th	Lammas Day	4	20	7	40	17	53	0	5	24
2	F			22		38		37		44	25
3	S			23		37		21	1	26	26
4	F	10 Sunday after Trinity		25		35		5	2	16	27
5	M			26		34	16	49	3	9	28
6	Tu	*Transfiguration of our Lord*		28		32		33	☽	ſets	N
7	W	Prs. Ame. b. *Na. of Jeſus*		30		30		16	7	34	1
8	Th			31		29	15	59	8	7	2
9	F			33		27		41	8	30	3
10	S	*St. Laurence* [Dog D. e.		35		25		24	8	54	4
11	S	11 S. a. Tri. Prs. Brunſ. b.		37		23		6	9	15	5
12	M	Pr. Wales b. *O. Lam. day*		38		22	14	48	9	40	6
13	Tu			40		20		29	10	6	7
14	W			42		18		11	10	36	8
15	Th	*Aſſumption of V. M.*		44		16	13	52	11	12	9
16	F	Duke of York born 1763		45		15		33	11	55	10
17	S			47		13		14	morn		11
18	S	12 Sunday after Trinity		49		11	12	54	0	49	12
19	M			51		9		35	1	52	13
20	Tu			53		7		15	3	4	14
21	W	Duke of Clarence b. 1765		54		6	11	55	☽	riſes	F
22	Th			56		4		34	7	38	16
23	F			58		2		14	8	8	17
24	S	St. Bartholomew	5	0		0	10	53	8	37	18
25	S	13 Sunday after Trinity		2	6	58		33	9	5	19
26	M			4		56		12	9	36	20
27	Tu			6		54	9	51	10	10	21
28	W	*St. Auguſtine*		8		52		29	10	48	22
29	Th	*St. J. Baptiſt beheaded*		9		51		8	11	30	23
30	F			11		49	8	47	morn		24
31	S			13		47		25	0	16	25

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	15 20	1 14	1 24	10 34	7 0	5′ 53″	6 m 47
6	4	30	44	14	6 55	24	28
11	14 46	48	2 2	9 56	50	4 43	9
16	30	2 4	20	39	44	3 49	5 50
21	12	22	35	24	39	2 42	31
26	13 52	40	50	0	33	1 23	12

New Moon, 5th, 57m. past 11 morn.
First Quarter, 13th, 52m. past 7 morn.
Full Moon, 19th, 8m. past 11 night
Last Quarter, 20th, 36m. past 11 night

Sun enters ♎ 22d. 2h. 58m.

1	F	14 Sun. after Trin. *Giles*	5	15	6	45	8n	3	1 m	9	26
2	M	London burnt 1666		17		43	7	41	2	5	27
3	Tu			19		41		19	3	4	28
4	W			21		39	6	57	4	6	29
5	Th			23		37		34	☽ sets		N
6	F			25		35		12	7 a	6	1
7	S	*Eunurchus*		27		33	5	49	7	29	2
8	F	15 Sun. af. Tri. *Nati. V. M.*		29		31		27	7	52	3
9	M			31		29		4	8	18	4
10	Tu			32		28	4	41	8	47	5
11	W			34		26		18	9	18	6
12	Th			36		24	3	55	9	58	7
13	F			38		22		32	10	47	8
14	S			40		20		9	11	43	9
15	F	16 Sunday after Trin.		42		18	2	46	morn		10
16	M			44		16		23	0	51	11
17	Tu	*Lambert*		46		14		0	2	5	12
18	W	Ember Week		48		12	1	36	3	25	13
19	Th			50		10		13	☽ rises		F
20	F			52		8	0	50	6 a	42	15
21	S	St. Matthew		54		6		26	7	12	16
22	F	17 S. a. Tr. K. Geo. III. cr.		56		4		3	7	43	17
23	M			58		2	os	21	8	16	18
24	Tu		6	0		0		44	8	52	19
25	W	*Holy-Croſs*		2	5	58	1	7	9	34	20
26	Th	*St. Cyprian*		4		56		31	10	21	21
27	F			6		54		54	11	12	22
28	S	[Royal b.		8		52	2	18	morn		23
29	F	18 S. af. Tr. St. Mich. Prs.		10		50		41	0	7	24
30	M	*St. Jerome*		12		48	3	4	1	6	25

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	13 30	3 4	3 7	8 52	6 26	0′ 24″	4 m 51
6	10	24	21	38	20	2 2	33
11	12 52	42	34	25	14	3 44	15
16	32	4 2	45	14	8	5 28	3 57
21	12	22	56	3	2	7 12	40
26	11 52	42	4 7	7 52	5 55	8 54	20

New Moon,	5th, 37m. past	4 morn.
First Quarter,	12th, 46m. past	4 aftern.
Full Moon,	19th, om. past	9 morn.
Last Quarter,	26th, 47m. past	5 aftern.

Sun enters ♎ 22d. 10h. 56m.

1	Tu	*Remigius*	6	14	5	46	3	28	2	m	6	26
2	W			16		44		51	3		10	27
3	Th			18		42	4	14	4		12	28
4	F			20		40		38	5		15	29
5	S			22		38	5	1	☽		sets	N
6	F	19 Sunday after Trinity		24		36		24	6	a	31	1
7	M	[*Faith*		26		34		47	6		58	2
8	Tu			28		32	6	10	7		29	3
9	W	*St. Denys*		29		31		33	8		7	4
10	Th	Ort. and Cu. T. b. O. Mic.		31		29		55	8		52	5
11	F	[day		33		27	7	18	9		43	6
12	S			35		25		41	10		44	7
13	F	20 Sunday after Trinity		37		23	8	3	11		52	8
14	M	[*Transf. K. Edw. C.*		39		21		25	morn			9
15	Tu			41		19		48	1		9	10
16	W			43		17	9	10	2		28	11
17	Th	*Etheldred*		45		15		32	3		47	12
18	F	St. Luke		47		13		54	5		9	13
19	S			49		11	10	15	☽		rises	F
20	F	21 Sunday after Trinity		51		9		37	6	a	16	15
21	M			53		7		58	6		52	16
22	Tu			55		5	11	19	7		33	17
23	W			56		4		40	8		17	18
24	Th			58		2	12	1	9		7	19
25	F	K. Geo. III. Accef. *Crisp*	7	0		0		22	10		3	20
26	S	K. Geo. III. Procl. 1760		2	4	58		43	11		0	21
27	F	22 Sun. after Trinity		4		56	13	3	11		59	22
28	M	St. Simon and Jude		6		54		23	morn			23
29	Tu			8		52		43	1		2	24
30	W			9		51	14	2	2		5	25
31	Th			11		49		22	3		9	26

Days	L. of D.		Day dec.		D. breaks		Tw. ends		Sun East		Cl. aft. S.		7 Stars So.	
1	11	32	5	2	4	18	7	41	5	49	10′	32″	3 m	4
6		12		22		29		30		43	12	2	2	46
11	10	54		40		39		20		37	13	22		27
16		34	6	0		49		10		31	14	28		8
21		14		20		59		0		25	15	20	1	50
26	9	56		38	5	8	6	51		19		56		29

New Moon, 3d, 20m. past 8 night.
First Quarter, 10th, 44m. past 12 night.
Full Moon, 17th, 46m. past 8 night.
Last Quarter, 25th, 47m. past 2 afternoon.

Sun enters ♐ 21d. 7h. 8m.

1	F	All Saints	7	13	4	47	14	3	41	4 m	13	27
2	S	Prince Edward b. *All Souls*		15		45	15		0	5	18	28
3	F	23 S. af. Trn. Prs. Soph. b.		17		43			19	☽ sets		N
4	M	K. Will. Ian. [Mic. T. 1re.		18		42			37	5 a	32	1
5	Tu	Powder Plot, 1605		20		40			56	6	8	2
6	W	*Leonard.* Mich. Term b.		22		38	16	14		6	50	3
7	Th			24		36			31	7	41	4
8	F	Prs. Aug. Sophia b. 1768		25		35			40	8	40	5
9	S	Ld. Mayor's Day at Lond.		27		33	17		6	9	45	6
10	F	24 Sunday after Trinity		29		31			23	10	58	7
11	M	*St. Martin*		31		30			39	morn		8
12	Tu	Mic. T. 2 re. Ca. T. div. m.		32		28			55	0	13	9
13	W	*Britius*		33		27	18		11	1	29	10
14	Th			35		25			27	2	48	11
15	F	*Machutus*		37		23			42	4	5	12
16	S			38		22			57	5	23	13
17	F	25 S. aft. Trin. *Hugh Bp. L.*		40		20	19		12	☽ rises		F
18	M	Mich. Term 3 return		41		19			26	5 a	24	15
19	Tu			42		18			40	6	6	16
20	W	*Edmund K. & Mart.*		44		16			53	6	54	17
21	Th			45		15	20		6	7	46	18
22	F	*Cæcilia. Old Mart. day*		47		13			19	8	44	19
23	S	*St. Clement*		48		12			32	9	44	20
24	F	26 Sunday after Trinity		49		11			44	10	44	21
25	M	D. Glou. b. *Cath.* Mic. T.		51		9			55	11	46	22
26	Tu	[4 re.		52		8	21		7	morn		23
27	W			53		7			17	0	50	24
28	Th	Mich. Term ends		54		6			28	1	54	25
29	F			55		5			38	2	58	26
30	S	St. Andrew		56		4			48	4	4	27

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	9 34	7 0	5 17	6 42	5 12	16′ 14″	1 m 4
6	16	18	24	35	7	8	0 44
11	0	34	32	28	1	15 40	24
16	8 44	50	37	23	4 57	14 51	3
21	30	8 4	43	17	52	13 40	11 a 42
26	16	18	49	11	40	12 11	21

Moon, 3d, 47m. past 10 morn.
Quarter, 10th, 29m. past 8 morn.
Moon, 17th, 52m. past 10 morn.
Quarter, 25th, 32m. past 12 noon.

Sun enters ♑ 20d. 19h. 29m.

Advent Sunday	7	57	4 3	21s	57	5 m 11	28
		58	2	22	6	6 22	29
		59	1		14	☽ sets	N
	8	0	0		22	5 a 25	1
		1	3 59		30	6 23	2
Nicholas		2	58		37	7 28	3
2 S. in Advent *Concep. V. M.*		3	57		43	8 39	4
		3	57		49	9 55	5
		4	56		55	11 12	6
		5	55	23	0	morn	7
		5	55		6	0 28	8
		6	54		10	1 42	9
Lucy		6	54		13	2 56	10
		7	53		17	4 10	11
3 Sunday in Advent		7	53		20	5 23	12
O. Sapient. Cam. Term e.		7	53		22	6 30	13
Orf. Term ends		8	52		24	☽ rises	F
Timber Week					26	5 a 19	15
					27	6 19	16
					28	7 16	17
St. Thomas. Shortest Day					28	8 18	18
4 Sunday in Advent					27	9 21	19
					27	10 23	20
		8	52		25	11 26	21
Christmas Day		7	53		24	morn	22
St. Stephen		7	53		21	0 28	23
St. John		7	53		19	1 33	24
Holy Innocents		6	54		16	2 38	25
Sunday after Christmas		6	54		12	3 46	26
		6	54		8	4 54	27
Silvester		5	55		3	6 2	28

Shortest D. at Lond. is 7h. 44m. 17s. allowing 9m. 5s. for refraction.

of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	♈ Stars So
6	8 28	5 54	6 0	4 45	10″ 23″	11 a 0
56	38	56	4	43	8 20	10 38
50	44	58	2	41	6 5	16
46	48	6 0	0	40	3 39	9 54
44	50	1	5 59	39	1 9	32
46	pinc. 2	0	6 0	40	1b. 21	10

CHRONOLOGICAL NOTES, &c. in 1793.

Dominical Letter	F	Roman Indiction	11	Eaſter Day	March 31
Golden Number	8	Septuage. Sun.	Jan. 27	Aſcenſion Day	May 9
Epact -	17	Shrove Sunday	Feb. 10	Whit-Sunday	May 19
Cycle of the Sun	10	Lent begins	Feb. 3	Advent-Sun.	Dec. 1

ECLIPSES, &c.

THERE will be four eclipſes in the courſe of this year, two of the Sun, and two of the Moon, and one of each of theſe will be viſible in Great Britain.

I. The Moon is eclipſed Feb. 25, viſible. Begins 9h. 24m. at night; middle 10h. 45m.; ends 12h. 7m.; total duration 2h. 43m.; digits eclipſed 60 0′ on the Moon's north limb.—II. The Sun is eclipſed March 12th, at 5h. 57m. in the morning, inviſible.—III. The Moon is eclipſed, inviſibly, Auguſt 11th. Begins 1h. 20m. afternoon, and ends 4h 17m. afternoon.—IV The Sun is eclipſed, viſibly, September the 5th. Begins 9h. 37m. morning; the middle 11h. 9m.; ends 12h. 44m.; digits eclipſed 9° 28′ on the Sun's north limb.

VENUS is an evening ſtar till May 27; then a morning ſtar to the end.

JUPITER is a morning ſtar till May 17; then an evening ſtar till Dec. 4; and laſtly a morning ſtar for the reſt of the year.

ANSWERS to the ENIGMAS.

1 Shadow	6 Fiſhing-net	*Suppl. Enigmas.*	
2 Feather	7 Death	1 Pair of Stays	5 Ship
3 Love	8 Roſe	2 Watergruel	6 Tongue
4 Sun-flower	9 Secret	3 Spadille	7 Tree
5 Honour	10 *or Prize*, Gibbet.	4 Bottle	8 *or Pr.* Wit.

Anſwers *to the* Prize Enigma.

1. *By the Rev.* T. Baker.

Ye parent fair ones, your dear offspring guide,
In paths of juſtice, truth, and honeſty;
Teach them to ſhun all gaming, ſloth and pride,
Which bring ſo many to the *fatal tree.*

2. *Miſs* Single's *Adreſs to the Ladies.*

All goodneſs attend ye, dear ladies ſo fair;
Let vice ſtand aloof, of your virtue take care;
If once you depart from her precepts, you'll find,
Adieu to all peace and contentment of mind.
Diſſipation and pride great inducements I think,
To a bad courſe of life, when inflamed with drink;
By gradation in vice young men ſoon become callous,
Then blame our poor ſex when they come to the *Gallows.*

3. *Miſs*

3. *Miſs* Sufan Browne's *Reſolution.*

Yes, Sir, I'll truſt in God! revere his laws,
And ever ſtrive to merit juſt applauſe:
My ſteps t'ward heaven I'll bend, what in me lies,
Then ſhall I never, never, never dread the prize.

4. *The Wiſh, by* Hilarius.

As on the *Fatal Tree* Paufanias ſwung,
For having boldly taken Philip's life,
A diadem upon his head was hung,
Unmeet reward! by a vindictive wife.*

O may fell murderers, wherever found,
Whate'er excuſe they make of provocation,
With no ſuch recompence be ever crown'd,
Or not till in a like exalted ſtation.

* *Olympias in cruce pendentis Paufaniæ*
Capit coronam auream impoſuit. Juſtin.

5. *Addreſs to Youth, by Mr.* Job Ayres.

Ye ſons of Britain, and ye daughters too,
Revere your country's laws, and them purſue.
Be it your conſtant, your aſſiduous care,
By virtue's aid to ſhun the dreadful *ſnare:*
The laws of God obey; and when you die,
You ſhall be happy in eternity.

6. *Advice to Youth, by Mr.* Robert Dowden.

Unhappy ye, who ſwear and play,
Prophaning holy ſabbath-day;
Amend in time, nor bend the knee
Before the fatal *Gallows-tree.*
God's name revere! obey his laws!
So may you "ſhun the direful cauſe."

Other ſeparate and ingenious anſwers to the Prize Enigma were given by Meſſrs. W. Anderſon, J. Bailey, Miſs Betty Boys, B. Cleppole, Wm. Cook, T. Croſbey, Chs. Dare, G. Davies, Ja. Daviſon, John Day, Miſs Nanny Dent, W. Dixon, junior, John Farraby, John Fildes, Miſs Marg. Fitzgerald, Wm. Gale, Tho. Gill, John Griffith, R. Hendy, Hiluria, Tho. Hornby, J. T. Hughes, John Jackſon, junior, Lavatrienſis, Sam. Lovatt, Hen. Mellanby, Tho. Nield, John Nuttall, Oedipus, Philander, F. Reynalds, Da. Robarts, Martinus Scribterus, Fr. Smith, John Taylor, R. Thomas, and R. Tucker.

General Answers to the Enigmas.

1. *A Petition from a Negro Slave to the Ladies of Great Britain: By the Rev.* T. Baker.

Ye Britiſh fair renown'd for *Love* and truth,
Extend your pity to an Afric youth:

Who in the name of millions of my race,
In your fam'd Diary humbly crave a place.
Tho' in St. Stephen's loft, our caſe by you
May yet ſucceed,—and end victorious too:
For ladies can deep *Pits* to mountains raiſe:—
Even your bleſt ſov'reign hears when Charlotte prays.
As turns the *Sun-flower* to the god of day, 4
Man turns where virtuous beauty leads the way.
But, O! grant not a ſmile to him that's ſent,
By honeſt freemen, into parliament;
Nor lords, nor princes, gain your leaſt applauſe,
Who will not pledge their *Honour* in our cauſe: 5
This point once gain'd, you never need refrain
From the ſweet produce of the ſugar cane.
Let not our colour, nor th' extended *ſpace* 7
Leſſen your pity for our wretched race;
Caught in the *Net* of ſlavery and woe, 6
No tongue can tell the pains we undergo:
Scorch'd by the ſun;—by whips and ſcourges tore,
While the blood ruſhes from each tortur'd pore.
The wretch condemn'd on *fatal tree* to ſwing, *Pr*
Often finds mercy from your gracious king;
But we, poor negro ſlaves, no mercy find;—
Our cruel drivers to that act are blind.
No *Feather*-beds lend us their friendly aid: 2
On blood-ſtain'd floors our mangled limbs are laid!
Theſe are but *Shadows* of that deep diſtreſs,
Whoſe dreadful ſubſtance negro hearts oppreſs!
But I forbear the tale whoſe horror ſeeks
To fade the *Roſes* on your lovely cheeks;
'Tis now no *Secret* in your happy land, 9
Where freedom reigns, with mercy in her hand.—
Know then, ye fair, by granting this requeſt,
Millions of wretched creatures you'll make bleſt;
And your petitioner will ever pray
You may find mercy on the judgment day.

2. *On the Diary and Supplement: By Mrs.* Richardſon.

Lady Di, who has ever been juſtly admir'd,
And many a young boſom with rapture inſpir'd,
Tho' her fame is ſtill riſing, and *laurels* are green, 5
Tho' ſhe's dreſs'd all in grandeur, and *Lovely* her mien, 3
Tho' her *plumage* waves high, and her *flow'rs* ſweetly *bloom*, 2, 4,
She's only a *Shadow* of good things to come; 1
For, her dear loving conſort muſt ever be nigh;
Or her flow'rs *hang* their heads, and her beauties all *die*: *Pr.* 7
And who, that's poſſeſs'd of a grain of good ſenſe,
Would part two ſuch friends for the trifling expence

For my part, if poverty dwelt in my purſe,
And that, lack-a-day! is the poet's hard curſe!
Still, to *graſp* ſuch a prize, ſuch a ſtore of delight!
(Where ſcience, and *Secrets*, and wiſdom unite,)
I would ſpare it in ſomething—I'd wear my robe thinner;
Or once in the year, I would forfeit my dinner;
Nay, I'd faſt a whole day; and I'd do it with pleaſure,
To ———

[*To be concluded in the Supplement.*]

3. *On Spring: By Mr.* J. Walton, *of Allin Town.*

See genial Spring again revives,
The gentle zephyrs play;
Each *Shady* grove and verdant lawn,
Announce the ſweets of May.

The *Feather'd* ſongſters on the ſpray,
In ſoft melodious notes;
Or on the wing in ambient air,
Extend their little throats.

The *Neatly* bluſhing curious *Roſe*,
In pride of nature's dreſs;
Love's ſunny banks, and op'ning *flow'rs*,
Till *Death* its breath ſuppreſs.

Again the plaſtic hand of God,
Its *Secret* power diſplays;
Whoſe *Honour* high, and mighty arms,
Excite our humble praiſe.

Then may we all, intent on good,
Avoid the direful *cauſe*,
That forfeits bliſs, and man demands,
To ſatisfy the laws.

4. *The Diſappointment: By Miſs* Margaret Fitzgerald, *Old Moſs.*

One early dawn before the break of day,
Or ſhepherds roſe, or little lambkins play,
I wander'd to the neat, ſweet, ſmiling *Shade*, 1
With aromatic *Roſe* and privit made; 8
Soft gentle breezes ſounded thro' the grove,
Where cooing pigeons told their tales of *Love*; 3
Ah! pleaſing thought, there kind Philander, he
Avow'd his love, and *ſecret* flame for me.
Laſt night he promis'd, at this early hour, 9
To meet me here, in this ſweet cooling bow'r,
Or elſe on Gallows, or on *Gibbet* high, 10
He'd calmly *ſuffer* if he told a lie. 7
But e'er 'tis long the gliding hour 'll paſs:
'Tis gone! 'tis gone! and he not come. Alas!
Some fatal ill has ſure befel my lord,
His *Honour* ſure wou'd ne'er abuſe his word. 5
If ſo, farewell! ye ſweet perfuming *flowers*, 4
Ye *Feather'd* choir, *Nay*, and woven bowers. 2, 6
Farewell! Adieu! for you've no power to pleaſe
Till comes Philander, my poor heart to eaſe.

5. *To*

5. *To Chloris: An Anacreontic: By Mr.* John Heslop.

Hence ye heart-corroding cares,
Fly, like clouds that *shade* the *Sun*;
My heart for joys sublime prepares,
E'er the race of life is run.

For me the *Rosy* wreaths entwine,
Whilst *Love* and wine my soul inspire,
Let me not at *Death* repine,
Or for that *Secret* hour enquire.

Caught by the laughter-loving dame
Secure within her *Toils* I sit,
Regardless of the *Plume* of fame,
Or the vain *Honours* of the great.

Some thro' the impious love of gold,
Have suffered at the *fatal tree*;
Let Plutus all his treasures hold,
If I possess my glass and thee.

6. *The Laurel: By Miss* Louisa Amelia Harpur.

Affrighted Daphne, ancient fables say,
Chang'd to a laurel, bauk'd the god of day:
But Phœbus still with am'rous passion glow'd,
And on his *Love* immortal fame bestow'd.
Beneath the laurel's *Shade* is plac'd his shrine,
Its glossy foliage decks his brows divine.
Then Io Peans fill the expanse of air,
And superstition's sons her rites prepare;
From golden censers clouds of fragrance rise,
And grateful incense mingle with the skies.
When fam'd Augustus led his troops to war,
To the bright God with zeal he made his pray'r;
With *Secret* pleasure Phœbus heard his vows,
And on his arms resistless force bestows.
From Actium's fleet his warriors vengeance hurl'd;
Mare Antony then left a prostrate world.
The luxurious queen who Egypt's sceptre sway'd,
Whose fatal charms e'en high-*plum'd* chiefs disarm'd,
Who like the wily fisher spreads her snare,
And in her *Net* deluded shoals appear;
To deck her couch the Sharon *Roses* bloom'd,
And Arab's choicest sweets her path perfum'd.
But Cleopatra's sensual joys were o'er,
Subdu'd at length by Rome's imperial power.
Yet still to yield, her haughty soul disdains,
She snatches *Death*, to shun severer pains;
Then grateful Cæsar to bright Phœbus rais'd
A fane, where rich with gems his image blaz'd,
In curious sculpture, round each Parian shrine,
Of Ophir's gold the laurels emblems twine.
But thy best *Honour*, never fading tree,
Is, that Apollo tunes his lyre to thee,
And the bright daughters of Olympian Jove,
The sacred nine, where wave thy *Shadows* rove.—
Ovid, sweet bard, in his melodious strains,
Thy former woe and wondrous change explains,

Of mournful *Cypreſs*, and of flowers he ſung, 10
Tells how poor *Clytei's* ceaſeleſs woos the *ſun*, 4
Reveals her face when firſt he paints the day,
And veils her aſpect at his parting ray.—
Now ceaſe my muſe, unequal to ſuch ſcenes,
Far other notes have tun'd theſe well-known themes.
But hark! Diaria does my lay recite,
My raptur'd boſom glows with fond delight,
Her tuneful bards have grac'd my humble name;
Approv'd by them, I ſeek no higher fame.

7. *To Lady* Diaria: *By Mr.* Wm. Gradidge.

Dear Di, your *Secrets* I'll diſcloſe, 9
Like ſol who opes the budded *Roſe*. 8
As *Shadows* fly before the *Sun*, 1, 4
And *rivers* to the ocean run; 2 *water gr.*
As *Lovers* to each others arms, 3
And birds from *Nets* of dread alarms: 6
As ſure as all theſe things are true,
So ſure am I to find your clue;
And *hang* me if I'll give you up, 10
Till *Death* the mortal curtain drop. 7
My *Honour* binds me firm to you, 5
So till next year——a kind adieu!

8. Hilaria's *Choice*.

I hate the city's din, and vain parade,
Where vice with pleaſure in one channel flows.
I ſlight proud *Honour*, for the rural *Shade*, 5, 1
And draw inſtruction from the *Lovely Roſe*. 3, 8

What joy to wander by the purling rill,
And trace its devious courſe the groves among;
To climb the craggy ſteep or verdant hill,
And liſten to the *Feather'd* warbler's ſong. 2

What joy when *Phœbus* quits the weſtern ſkies, 4 *Sun-ſt.*
Alone by Luna's milder beams to ſtray;
Mark how the ſtarry orb ſucceſſive riſe,
And hail the glorious planets on their way.

What tho' amid this ſcene the penſive mind
Full oft is led to meditate on *Death*, 7
Who ſpreads his *Secret Net* for all mankind, 9, 6
Nor quits his deadly aim but with their breath.

Yet hope, which to the mortal cup ſupplies
Some cordial drop to help life's potion down,
Points, while we bear the *Croſs*, to happier ſkies, 10
And bids the awful tyrant loſe his frown.

9. *Deſcription*

9. *Deſcription of Honiton:* *By Miſs* Suſan Browne.

Honour'd Sir, May I hope your indulgence to gain, 5
And my town's ſituation I'll briefly explain.

'Tis a town moſt delightfully plac'd in a vale,
Where the ſwains are ſincere, and friendſhip is real:
Where the ſwift little Otter* runs bubbling along, * *the river.*
And the birds in full chorus, reſponſe in their ſong.—
We've a market each week, to ſupply all our wiſhes,
That's abundantly ſtock'd with fleſh, fowl, and fiſhes.
Here's Membury cheeſe, and Upottry cream,
Brought to market by laſſes proverbially clean.
Here's turkeys and geeſe, nice bacon and eggs,
With hams ready pickled, and alſo freſh legs.
Here's fruit moſt delicious, for all ſorts of taſtes;
Fine nect'rines and peaches, plumbs, apples, and grapes.
At the ſhops a profuſion of things you may get,
A *Shade*, or a *Feather*, *Love*, *Flowers*, or a *Net*. 1, 2, 3, 4, 6, 8.
And Sir, tho' no *Secret* I wiſh to impart, 9.
The town's pav'd *en Londre*, ſo neat and ſo ſmart.
No culprits are here, nor ſuch raſcally fellows,
As ſuffer by *Death*, on a *Gibbet*, or gallows. 7, 10

10. *Ode to Philanthropy:* *By Mr.* Geo. Stephenſon.

Joyful I hail thee, fair celeſtial maid,
Of *aſpect ſweet*, and dew-ſurcharged eye, 8
Gliſt'ning for ſorrows not thy own.—Afraid
Of thy keen glance, foul tyranny does fly.
With Howard, thou the *priſon* oft explor'd, 6
Where mis'ry lies, by faithleſs friends forgot,
And kindly ſtrove to have their health reſtor'd,
And lent relief to eaſe their wretched lot.
'Tis thine to wipe the widows tears away,
And feed her children, weeping alas! for bread:
To ſoothe the afflicted family whoſe chief ſtay
Is ready to be number'd with the *dead*.— 7
And what are wealth and *Honour* void of thee, 5
But *triſles*, fleeter than the gnomous *Shade*, 2, 1
Fair they may *bloſſom*, like a ſpreading *tree*, 4, 10
Yet ſuddenly are blaſted and decay'd.
But join'd with thee, diſpenſing bliſs around,
Like grateful ſhowers upon the thirſty plain:
Belov'd by all, with *Secret* pleaſures crown'd, 3, 9
While heavenly treaſures they are ſure to gain.

11. *On Love:* *By Miſs* Betty Boys.

Love it is a wounding pleaſure,
That diſturbs the tender mind,
Bought by riches nor by treaſure,
But by friendſhip good and kind.

Like a *Shadow* 'tis acreeping,
Always for a further claim,
Some can't face it without weeping,
Tho' to weep it is a ſhame.

Like to *Honour*, 'tis a feeling
That regales each noble sage,
Tho' in thraldom some sit kneeling
To the terrors of its rage.

Like a *Rose* 'tis fresh at springing,
And exhales a sweet perfume,
Tho' in times it will be winging,
And in *Secret* hide its *plume*.

Like a *sunflower* it arises,
With its glaring charms on high;
Those that meet it, it surprizes,
And embraces with a sigh.

Like a *Net* it catches many,
While they careless run astray;
Like the *Gibbet*, few if any
Doom'd to it can run away.

Some more solutions are inserted in the Supplement, by Messrs. T. Browne, John Fildes, Da. Roberts, D. Rupert, and Fra. Smith. And ingenious answers were also given by Messrs. Aminicus, Job Ayres, Wm. Ashton, J. Bayley, W. Bearcroft, T. Bulmer, Wm. Burdon, John Burrows, John Campbell, John Cavill, Clarinda, Miss Marianne Davies, Jas. Davison, John Day, Da. Dumbleby, Rev. Mr. Ewbank, John Farraby, Wm. Foster, J. Fowler, Miss Nancy F——et, John Griffith, John Hardy, J. Hartley, Rob. Hendy, Junr. Tho. Hornby, J. T. Hughes, Lavalrienfis, Sam. Lovatt, Miss Nancy Mason, Henry Mellanby, Jas. Mulcaster, Tho. Nield, John Nuttall, Tho. Osborne, F. Reynolds, Alex. Rowe, John Savage, Jos. Scott, W. Tarmior, John Taylor, Wm. Thompson, M. Thorpe, W. Wardley, J. Whitcombe, and Y. Z.

ANSWERS *to the* REBUSES *and* CHARADES.

Rebuses.		*Charades.*	
Diary.	*Sup.*	*Diary.*	*Sup.*
1 Jones,	1 Baker,	1 Soundpost,	1 Courtship,
2 Nuneaton,	2 Harp,	2 Horseleech,	2 Firelock,
3 Read, or Mead,	3 Jackson,	3 Deathbed,	3 Friendship,
4 Richmond,	4 London.	4 Wanton.	4 Primrose.

1. *The Rebuses and Charades in both Diary and Supplement, answered by Mr.* Job Ayres, *of Riccall.*

Hail! lovely *Jones*, you first appear,
Fair Dia's page t' adorn;
Nuneaton next, in Warwickshire,
With *Read*, bright as the morn.

Fair *Richmond* then presents to view,
Where no life-guards are found;
And *Horseleech* next, vile reptile
In sanguine acts renown'd.

Then awful *Deathbed* doth engage
Th' attention of my mind;
And *Wanton* thoughts at once doth change,
For those of nobler kind.

On solemn subjects, such as these,
Let *Baker* tune his *Lyre*;
Or *Jackson*, whose poetic ease,
We constantly admire.

The *Primrose* sweet, and lily fair,
The ornaments of spring;
Courtship and love, with *Friendship* rare,
Of these I'd wish to sing.

Be it my fortune, far to dwell
From city, noise, and strife;
Retir'd in some rural cell,
Bless'd with a pleasing wife.

Grant me, ye Gods, this one request,
My wishes soar no higher;
In *Courtship*, love, and marriage blest,
Is all that I desire.

2. *The Rebuſes and Charades, anſwered by Miſs* Betty Boys.

To gueſs your riddles, Lady Di,
My luck I ſtraight way mean to try,
And name them right if I know how.—
There's *Richmond* one, *Nuneaton* two;
There's lovely *Jones*, and *Read* ſo bleſs'd,
Two more explain, if right they're gueſs'd.
So *Death-bed*, *Horſe-leech*, *Wanton* will,
With *Sound-poſt* juſt the whole fulfil.

3. *The ſame anſwered, by Mr.* Wm. Burdon, *of Acaſter Malbis.*

While fortune ſmiles dear *Read* beware,
Of *Wantons* and the harlot's ſnare.
Let truth and reaſon be your guide,
Then take a *Jones* to be your bride.
The ways of virtue ſtraight purſue,
Till *Deathbed* thoughts appear in view.
For what avails *Nuneaton*'s power,
Or *Richmond*'s wealth in the laſt hour:
This brings, of comfort not one ray,
But, *Horſeleech* like, ſoon glides away.

4. *The Rebuſes anſwered, by Miſs* Marrianne Jones, *Southwark.*

Miſs *Jones* is the nymph that Aminicus loves,
And 'tis *Nuneaton*, Wardley muſt mean;
But *Read* has the virtues her friend moſt approves,
And at *Richmond* Eliza has been.

5. *The Enigmas, Rebuſes, and Charades, by* J. Fowler, *Rathbone Place.*

'Twas in the dewy month of May,
When rural ſcenes are green and gay,
I wander'd to a ſhady grove,
And met the object of my *Love*.
Many a youth and many a maid
Have viſited this *Secret Shade*,
To tell their pleaſing tale of love,
The *Feather*'d warblers perch'd above.
Then hand in hand we ſix'd our ſeat,
To view the ſweets of this retreat.
Fame, wealth, and Honour now re-
What are you compar'd to love. [move,
View the proſpect, look around,
Sure 'tis all enchanted ground.
Can *Richmond*, or *Nuneaton* ſhew
Such ſweets as theſe, or ſuch a view.
Behold the little *Wanton* lambs
Skipping round their bleating dams;
And view the lily and the *Roſe*,
Whichpart of thiſ ſweet ſcene compoſe.
And view the purling ſtream run by,
With *Fiſhing-net* to catch the fry:
View the manſion fair and neat,
An elegant and beauteous ſeat.*
And ſee upon yon riſing ground,
The windmill moving ſwiftly round:
Behold the ſwain with heaved ſtroke,
Bring down the tall majeſtic *Oak*.
In this ſetirement, free from care,
Bloodthirſty *Leeches* come not here.
At ſeaſons fit we hoſe can rove,
To read and walk, or talk of love;
Till days and years are paſſed by;
We then within the grave muſt lie;
In hopes a nobler ſeat to gain,
Where love and bliſs immortal reign;
The *Deathbeds* then no terrors bring,
Nor need we fear death's blunted ſting.

* The ſcene, a grove fronting the ſeat of Gore Townſend, Eſq. Honington Hall, Warwickſhire.

6. *The Invitation.* By *Mr.* Wm. Gradidge.

Let us ramble down the *Mead*,
And on nature's carpet tread,
Let us trip to *Richmond* hill,
And of pleasure take our fill.
Come miss *Jones*, come mount your *Horse*,
Chearful go along with us,
Prithee make no greater fuss:
Leave your *Wanton* looks behind,
To your faithful *swain* be kind;
Keep your vows as *Nuns* most pure,
Let him of your heart be sure.
Then when death shall call your soul,
May heaven eternal be your goal.

7. *The same, by Mr.* John Thomas Hughes, *of Catherstone.*

At *Richmond* dwells a lovely fair,
With natural perfections rare,
And equal'd yet by few:
Not *Jones* or *Mead* can boast a face,
Adorn'd with such refulgent grace,
As lovely charming Sue.

Would she, compassionate and kind,
Alleviate my anxious mind,
I'd feel a pleasure new;
To *Nuneaton* I'd joyful go,
And share my little all below,
With lovely charming Sue.

When on her *Deathbed* she reclin'd,
To soothe my frantic raving mind,
I'd mournful bid adieu!
The *Leech* should welter in my gore,
And joyful I'd exist no more,
But die with lovely Sue.

Answers *to the* Queries.

Query I, *answered.*—There are different opinions on this Query.

Miss Nancy Dent, of *Osmanslat*, *says*

The handsome widow I think must bestow the most agreeable charms on a husband. For the old maide, being unacquainted with the affairs of the world, and perhaps swayed in most of her actions by prejudices contracted in he years of her virginity, will be a more useless piece of furniture then the handsome widow, who, by the experience of a former marriage, has become acquainted with the methods of pleasing husbands, the government of a family, the modes, maxims, and fashions of the world, &c. &c.

The same answered, by Mr. Geo. Stevenson.

f the widow and maid be of an equal age, beauty, mental accomplishments, &c. as I suppose are implied in the query, I should be induced to ive my vote in favour of the latter. For, it is well known, that widows are apt to draw comparisons between the conduct of their former and present husbands, the conclusion of which is sure to be far from favourable to he present. To say nothing of the disagreements that may arise if she has hildren surviving to her former husband.—Besides, the very idea of a maid,

joined

joined with the agreeable timidity, &c. accompanying it; alſo her love, which will be the moſt ardent, being her firſt, renders the charms of the maid more deſirable than thoſe of the widow.

QUERY 2, *anſwered*.—There are alſo different opinions on this Queſtion.

Miſs Nancy Maſon, of Clapham, ſays

I am of opinion that it is not a good way, for a young woman to entertain many lovers at once, if ſhe could wiſh to be ſoon married. I would therefore adviſe a young woman to entertain and keep company only with him ſhe eſteems the moſt, and abandon all the reſt; as I cannot imagine that any ſenſible man will ever think of marrying a woman that keeps company with another man.

[See other anſwers in the Supplement.]

*** *It is with much concern we have learnt that we have been impoſed upon with reſpect to this query, which ſome evil-minded perſon ſent to us, in the name of the amiable young lady whoſe ſignature it bears, but without her knowledge, and evidently with no good intent; as appears by the following certificate, ſigned by the miniſters and churchwardens, and others the moſt reſpectable inhabitants of the place; from which it is hoped the author of that baſe attempt will be truly aſhamed of ſuch conduct.*

CERTIFICATE.——"Sir, In the laſt year's Diary for 1791, a letter was ſent you as from Miſs Eliz. Baylie of Cheſham, on a queſtion as from her, to be put into the Diary, of which ſhe was intirely ignorant, ſo beg the favour of you to contradict it, as the names underneath are witneſſes to the contrary.

R. T. Butcher, Vicar of Cheſham,
F. Bowen, Curate,
P. Baylie and John Bailey, Churchwardens,
Nich. Scottowe,
Henry Rumſey, ſenior,
Patr. Hepburne,
George Hepburne,
Henry Rumſey, junior,
Wm. Sutthery."

QUERY 3. *Anſwered*.—Upon this Query too our Correſpondents are almoſt equally divided. Thus

Mr. J. Walton ſays, It is certainly harder to keep a woman's love, than to gain it; becauſe they are not always pleaſed with the ſame civilities, neither is a man always inclined to pay the ſame reſpect to her, that ſhe might be taught to expect.

But

But *Mr. John Filde* says, "I think it more difficult to gain a woman's love, than to keep it when gained. Women in general are much more steady and sincere in their attachments, than men; and when once a man has gained a woman's love, scarcely any thing can deprive him of it.

QUERY 4. *Answered by Mr.* Ra. Burton.

The contrivance of casting single types in metal is generally ascribed to Schœfer, first servant, afterward partner and son in law of John Fust at Mentz in Germany; so that he was properly the first printer as well as letter founder; and strictly speaking, the Bible printed with moveable types in 1450, or thereabouts, was the first printed book. It is said that Fust, (or Faustus as some authors call him) carried a number of his printed Bibles to Paris, and offered them to sale as manuscripts; but the French considering the number of the books, and their exact conformity to each other, even to a point, and that the best book-writers could not come up to such exactness, concluded there was witchcraft in the case, and by indicting him as a magician, or threatening to do so, obliged him to disclose the secret.

There are however other opinions. See the Supplement.

V. *or* ASTRONOMICAL QUERY, *answered by Mr.* W. Virgo.

The outward arc of the enlightened part of the moon's apparent disk, is less than a semicircle at her first appearance after a conjunction with the sun near her perigee; because the angle under which she then appears from the earth, is considerably greater than that under which she appears from the vertex of her conical shadow; which position conceals from our view more than one half of that circle, which, in the mean, separates light from darkness.

NEW ENIGMAS.

I. ENIGMA 752, *by Mr.* John Bayley, *Schoolmaster.*

In days of yore, if ancient bards say true,
I shone, ye nymphs, as bright a belle as you;
Till doom'd to love; but lov'd a youth in vain;
And being slighted, languid grew with pain.
Henceforth, to verdant vales and groves I fled,
To silent caves and hollow rocks, to hide
Me from the youth, the object of my hate,
There pensive to deplore my abject state.
I'm now an aerial vehicle of sound,
Tho' within hearing never to be found.
I meet you in the woods, and on the plain,
Yet all the while invisible remain.

I tuneful

I tuneful notes repeat, and warbling song,
Yet all perform without a pliant tongue.
Delightful themes I do with care attend,
Yet ne'er begin, tho' always make an end.
Now ladies name me, for if fame says true,
My origin was from a nymph like you.

II. ENIGMA 753, *by Miss* Betty Boys, *of Stainton Vale.*

When festive fancy lights afresh the brain,
And lofty towering mounts the poet's vane,
When wit and art in chorus join and sing;
'Tis then to birth, to light my actions spring.
Made to delight, to please the fair one's mind,
I am, shall be, and always was design'd
A yearly tribute to the musing tribe,
Wafted with pleasure from some posing scribe,
His thoughts convey, to decorate his name,
Proclaim his merit in the page of fame.
Though to perplex them I am ever known,
And urge with anger of the gloomy frown;
For, dress'd in fashion, wrapt up so with art,
I both can vex and please the human heart.
I've told, in mirth how jovial ruffics sing,
How dew-drops fall, how roses deck the spring,
How shadows creep, how winter storms prevail,
How love unfully'd breathes adown the dale;
I sometimes too am dignify'd a prize,
A palm of honour in my author's eyes.

III. ENIGMA 754, *by Mr.* B. Cleypole, *of London.*

Ye riddling wits how comes it thus about,
That I'm so long from Diary's page left out?
Although no regal consequence I claim,
Nor stand a candidate for pompous fame;
My useful worth in Britain's isle's well known,
And to all ranks my friendly aid is shown.
If thoughts of gain employ the active mind,
Or sparkling wit, with jollity combin'd;
I'm quite forgot, regardless of my fame,
Accounted futile, or an empty name.
But with the serious part of human kind,
A welcome and a kind reception find.
When the slow knell for some departed friend,
Proclaims his earthly journey at an end;
I then appear:—but transient is my view,
For with him bid the guilty world adieu.
Take this remark, ye giddy sons of pride,
Who good instruction and advice deride,
When me in elevated state you see,
"Memento mori" should your lesson be.

In

IV. Enigma 755, *by Mrs.* Hallilay.

In mother earth, with labour and great care,
Man form'd me, and he muſt my favours ſhare,
Though oft my product quadrupeds enjoy,
Untainted ſweets of life, that ſeldom cloy:
Yet I, a vaſſal for the high and low,
Expos'd to ſun and wind, to froſt and ſnow,
Uprear my hardy body, ſtraight and tall,
The arm of liberty outſtretch to all,
Expand my uſe to every ſervile gueſt,
Your brewer, waſher, ſcullion, and the reſt,
Who dead to mercy, and the tears in ſight,
Inſatiate ſometimes work me day and night,
With joy extatic ſee my wonted throws,
And ſome my very bowels through my noſe.
But change the ſcene; where faſhion reigns ſupreme,
Within an edifice of great eſteem,
Near th' abby church in Bath I'm always found,
Moſt active when the glaſs goes briſkly round.
Yet ſay the muſe a ſplendid drawing room,
Where ſcandal holds the ſceptre as buffoon,
My potent name elates each anxious breaſt,
That pants for news, nor lets a neighbour reſt.
And you, ye fair, without a wiſh to rail,
If I a dark enigma ſtill prevail,
Will uſe my name in mind, or with your friend,
Till brighter thoughts expound me in the end.

V. Enigma, 756, *by Mr.* J. Heſlop, *of Bowes.*

Ye myſtic bards, with diffidence I claim
To hold a place within the liſts of fame;
Yet were I plac'd according to my ſtation,
Altho' a ſlave I'd ſit o'er half the nation:
Not like an eaſtern monarch, whoſe chief view
Is to oppreſs all whom he can ſubdue;
For I'm regarded by all ranks of men,
And in return I honour them again;
But like them too, the great I venerate,
When they approach me, I reſign my ſeat.
Nor are my uſes to the great confin'd,
I oft convey a treaſure to the blind.
If croſs the main you plow the rugged deep,
"O'er head and ears," not far from you I keep.
Where'er you go, I always you attend,
Whether to walk the ſtreets, or ſee a friend.

But

But ſhould ſome boiſterous tempeſt rend the ſky,
If not well guarded, I from you may fly;
Upborn on airy wing, I ſweep the plain;
With hair diſhevell'd, you purſue in vain.
In miſty clouds I at their heads appear;
But long ere this I ſee you've made me clear.

VI. Enigma 757, *by* Lavinius, *of Lancaſter.*

From whom, it matters not, nor where I ſprung,
My worth alone may ſurely claim regard,
For oft, dear ladies, is your ſervant ſung,
The brilliant theme of many a tuneful bard.

When midnight broods I never bleſs your ſight,
Rarely on me will mourning Philo. call;
I claim no friendſhip with the guilty night,
My deeds are fair, and day ſhall ſee them all.

The lab'rer ſweating with his conſtant toil,
The weary ſchool-boy, panting to be free,
Mark my approach, and own me, as they ſmile,
Friend of refreſhment, reſt and liberty.

Hark! round the town what various notes you hear,
While many a diff'rent face denotes my reign,
Yet ere their clamour dies upon the ear,
Lo! I am gone, to chear ſome other plain.

Once 'twas not ſo—but faſhion varies ſtill—
Such tales altho' I almoſt bluſh to ſpread,—
Your beaux and belles, believe it they who will,
I oft look on them riſing from their bed.

Direct, ſince thus I ſhine ſo great and fair,
While o'er the globe eternally I range;
Revers'd,—but, gentle nymphs, the efforts ſpare,—
The ſame I ſhine, nor ever know a change.

VII. Enigma 758, *by Mr.* John Nuttall, *of Bury.*

I like other creatures proceed from the earth,
But it's man, crafty man, who gives me my birth;
Born as dull as a block, I'm as ſharp as a fly;
Two noſes I've got, yet I have but one eye.
Out of which, ſtrange to tell! my bowels I ſpew,
Yet as odd as it ſeems, I proteſt it's quite true.
Two foes too I've got, who harraſs me ſore,
And ſmartly they kick me behind and before;
No ſooner I'm quit of the one, but the other
Repels me with force againſt his own brother.
Thus I'm toſs'd to and fro, yet I never complain,
For I know, deareſt ladies, it is for your gain;
So I hope in return, you my name will explain.

VIII. Enigma 739, *by Mr.* James Tong.

Beneath the earth's dark ſhades my parent lay,
Nor once beheld the genial light of day:
Till doom'd to quit that dark and ſable tomb,
Tho' then was ſummon'd to a fiery womb.
When I am form'd, no doubt but you'll declare
That I'm well known among the blooming fair;
Tho' not unto the fair ſex I'm confin'd,
For man imperious me I was deſign'd.
Pelluced gems do ſometimes me ſurround,
At other times beſtud'd with dirt I'm found.
When Pharoah, Egypt's king, his boon beſtow'd,
And on an Hebrew youth his bounties ſhow'd,
Among the various favours he conferr'd,
I as a ſacred pledge was not debarr'd.——
When the briſk ſwain with Phillis chaſte repairs,
To taſte the happineſs which Hymen ſhares,
When they attend that conſecrated ſhrine,
The ſacred rites of Hymen I combine.
With royal George in regal ſtate attend,
And like eternity I have no end.

IX. Enigma 760, *by Mr.* Wm. Wardley, *Maſter of the Academy in Fennel-Street, Loughborough.*

Ye fair, whoſe quick diſcerning eyes,
Can pierce enigma's dark diſguiſe,
Who can explain what ſhe for ages
Confounded ſophs, and wits, and ſages;
Not anger ſhew, nor ſcorn expreſs,
If I appear in myſtic dreſs.
Firſt—let me ſee—I'm ſuch an elf,
I ſcarcely can deſcribe myſelf:
Of pigmy ſize I am, or tall;
My ſhape's uncouth—ſome think it
Fantaſtic robe I always wear; [droll;
For ſomething odd I muſt appear.
At wakes and fairs I ſhew my face,
With grins diſtorted and grimaces,
And laugh and crack my ſmutty jokes,
On Tom and John, or ſuch like folks;
Who ſometimes with ſome lucky hit,
Retort upon my low-bred wit,
And fix on me the ridicule,
Which I deſign'd on them to pull.
With brazen front I ſtand th' aſſault,
Or nimbly thro' a circle vault:
But hold—I here muſt cloſe my tale,
Or I ſhall rend enigma's veil.

X. *or* Prize Enigma 761, *by Mr.* Robert Richardſon.

Search round creation's ample field,
The works of Heav'n, and eke of man,
How vain the ſearch! ſay does it yield
One hint to juſtify my plan?
Form'd by that heav'n I diſobey,
And contradict its high command;
Ere clouds bedim my meaſur'd day,
See beauty's faireſt model ſtand.
See, to my ſhrine, obſequious, bow
The little lordlings of the hour;
The monarch high, the peaſant low,
Adore my form, and own my pow'r.
Should then 'Olympus' gates extend,
And ſanction'd by the nod of Jove,
Some God, in ſaffron robes deſcend,
To point my path to bow'rs of love;
In vain for me his torch ſhall burn;
In vain with ſilken cords he draws;
Scornful, the proffer'd bliſs I ſpurn;
And fiends and furies aid my cauſe.
Now, where the vernal ſcene had ſmil'd,
In nature's faireſt livery dreſt;

Young

Young hope each raſſling tear be-
guil'd,
And rapture danc'd in every breaſt.
Ah! dire reverſe! ſee tempeſts riſe!
See, op'd, the cave of black deſpair!
Green envy rolls her baleful eyes;
And rancour, link'd with rank'ring
care.
As ſhuns the owl the blaze of day,
The grove's ſweet concert ſhuns to
join,

So, far from pleaſure's haunts I ſtray,
To envy, and to hate, are mine.
Yet oft, in autumn's with'ring hour,
My dingy wreaths I blend with green:
Accurſed mixture! ſweet turns ſour;
And nature mourns th' empoiſon'd
ſcene.
Yet, by this artifice, I ſhun [low.
What bards had doom'd my fate be-
One faint ray marks my ſetting ſun,
And works my weal in others woe.

New Rebuſes, Charades, *and* Queries.

I. Rebus, *by Mr.* J. Bayley, *of Middleton.*

The only two things which this life moſt annoy,
And friendſhip, and pleaſure too often deſtroy,
When join'd together, no leſs you ſhall ſee,
Than the name of a Town, the product will be.

II. Rebus, *by Mr.* J. T Hughes, *of Cotterſtone.*

Ladies! your friend is veil'd! indulgent ſmile,
And name the ſtaple of Britannia's Iſle;
Then take four-fifths of what with rage is hurl'd,
Or in the Church inſtructs an erring World:
Join theſe and hail a fam'd Dianian Bard,
Whoſe flights poetic claim your beſt reward;
'Tis he! whoſe muſe diſplays "ſuch ſtrains of love,"
As mount with rapture to the realms above.

III. Rebus *Mr.* Sam. Lovatt, *Aſſiſtant to Mr. T. Nield.*

The 3 dire who clad with ſerpents are;
She t.. n'd into a cow by Jove's great care;
He who into a wolf by Jove was turn'd;
The nymph for whom in vain Apollo burn'd;
Thoſe bliſsful plains which happy ſouls poſſeſs;
That drunken god, who ſcarce could ride his aſs;
Th' initials join, and to you will appear,
A genius who in diary ſhines each year.

IV. Rebus, *by Mr.* Wm. Ward, *of Loughborough.*

The faithful conſort of Laertes ſon,
What you'll collect ere this your work is done,
What oft we call a fiery temper'd laſs,
And he who did great Etoecles ſurpaſs;
From hence with eaſe you'll find a well known name,
Belov'd by Britons, and enroll'd by fame.

I. Charade,

I. CHARADE, *by Miſs* Suſanna Browne.

My firſt, like eternity 'gins not, nor ends,
To my ſecond, we too much are prone;
My whole's a fair fruit, of a delicate taſte,
Who anſwers it—ſhe ſhall have one.

II. CHARADE, *by Mr.* John Fildes, *Schoolmaſter, Liverpool.*

My firſt is ſeen array'd in pureſt white,
And when it to my ſecond doth diſſolve;
Oft from beneath my whole appears in ſight:
Ye fair this ſeeming myſtery reſolve.

III. CHARADE, *by* Joſephus.

My firſt is a place of inſtruction you'll find,
And my next in my firſt to be taught is confin'd:
My whole in ev'ry City or Vill may be found;
And my firſt with my ſecond the kingdom around.

IV. CHARADE, *by Mr.* J. Walton.

I'th' Middle of my lucid Laſt,
My firſt is always found:
My whole in ſplendor will appear,
While Sol performs his round.

I. QUERY, *by Mr.* John Dalton, *of Kendal.*

What is the cauſe of the miſt which is ſometimes obſervable in a calm evening, eſpecially in ſummer, to hover over rivers, meadows, &c.

II. QUERY, *by Mr.* Rob. Hendy, *junior, of Andover.*

The origine of Valentines declare,
From what it ſprung, from whom, and when, and where.

III. QUERY, *by Miſs* Nancy Maſon, *of Clapham.*

Required an explanation of all the letters on a guinea.

IV. QUERY, *by* Myrtilla.

Is it prudent for a female to encourage the addreſſes of a ſuitor the firſt time, if ſhe is well acquainted with his character.

*** *In anſwer to ſeveral perſons who enquire if their letters arrived, or who complain that their names are not noticed, &c. the Editor begs leave to obſerve, once for all, that ſome of them never came to hand, and others are not poſt paid, and therefore not received from the poſt, beſides ſeveral that arrive too late to be noticed. And his correſpondents may depend on it that no letter is neglected that is received, and that they are always preferred according to their merit, as far as limits of the Diary will permit.*

Answers *to the* Mathematical Queſtions.

I Queſtion 939 *anſwered by Mr* Joſ. Facer.

PUT $x =$ the greater number, and y the leſs; then, by the queſt. $x+y = x^2 - y^2$, and $x+y = \frac{x}{y}$. Divide the firſt equat. by $x+y$, gives $1 = x-y$, or $x = y+1$; ſubſtitute this for x in the 2d equat. gives $2y+1 = \frac{y+1}{y}$; hence $2y^2+y = y+1$, or $2y^2 = 1$, and $y^2 = \frac{1}{2}$, or $y = \sqrt{\frac{1}{2}} = \frac{1}{2}\sqrt{2}$; and hence $x = 1 + \sqrt{\frac{1}{2}} = 1 + \frac{1}{2}\sqrt{2}$.

Proof. $x+y = 1+\sqrt{2}$.

And $\frac{x}{y} = \frac{1+\sqrt{\frac{1}{2}}}{\sqrt{\frac{1}{2}}} = 1+\sqrt{2}$.

Alſo $x^2 - y^2 = (1+\sqrt{\frac{1}{2}})^2 - \frac{1}{2} = 1 + 2\sqrt{\frac{1}{2}} + \frac{1}{2} - \frac{1}{2} = 1+\sqrt{2}$.

The ſame anſwered by Mr J. Hartley, *Fleet Street.*

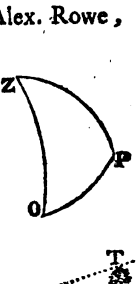
Put x and y for the required numbers: then, per queſt. $x+y = \frac{x}{y}$, and $x+y = x^2 - y^2$. Tranſpoſing the laſt equat. gives $x^2 - x = y^2 + y$; add $\frac{1}{4}$ to both, makes the two complete ſquares $x^2 - x + \frac{1}{4} = y^2 + y + \frac{1}{4}$, the roots of which are $x - \frac{1}{2} = y + \frac{1}{2}$, and here $x = y+1$; which value of x ſubſtituted in the other equation, gives y and x as above.

The ſame by Mr Ja. Aſhton, *of Harrington.*

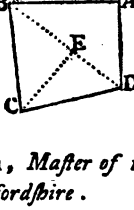
Put $x =$ the ſum, and y the difference of the required numbers; then ſhall thoſe numbers be $\frac{x+y}{2}$ and $\frac{x-y}{2}$; hence $\frac{x+y}{x-y}$ is their quotient, and xy the difference of their ſquares; whence, by the queſtion, $x = xy = \frac{x+y}{x-y}$; from the firſt $y = 1$; then by ſubſtituting $x = \frac{x+1}{x-1}$, hence $x^2 - x = x+1$, or $x^2 - 2x = 1$, and $x^2 - 2x + 1 = 2$; extracting the root, &c. $x = 1+\sqrt{2}$; hence the two numbers are $1+\sqrt{\frac{1}{2}}$, and $\sqrt{\frac{1}{2}}$.

And according to one of theſe three ways was the ſolution given by Meſſieurs Academicus, Amicus, Ayres, Baron, Brewer, Brooks, Bulmer, Burdon, Burton, Campbell, Cavill, Craggs, Cox, Coſbey, Dees, Evans, Ewbank, Fildes, Ferraby, Fox, Fry, Garnett, Glanville, Griffith, Hewitt, Holt, Hopkinſon, Howard, Hulland, Jackſon, Johnſon, Kinnebrook, Lawton, Leybourn, Liddell, Milner, Mitchell, Mooney, Mulcaſter, Nicholſon, Nuttall, Park, Pearſon, Reed, Rodham, Rowe, Ryley, Simpſon, Skewes, Surtees, Tarmior, Virgo, White, Whitcombe, Wilkinſon, and Woolſton.

II Question 940 *answered by Mr* Alex. Rowe, *Reginnis*.



Firſt, in the ſpherical triangle Z P O, are given P Z = 35° 30′ the colatitude, P O = 78° 24′ the codeclination, and the included angle at P (meaſured by 5½ hours at 15° each hour) = 82° 30′, to find the 3d ſide Z O, which by the rule at pa. 164 Dr Hutton's Math. Tables, comes out 76° 14′, which is the coaltitude, and therefore the altitude itſelf of the ſun is 13° 46′.



Then, as tang. alt. A B ⊙ = 13° 46′ : radius :: A T = 66 feet or 100 links : 408 links = the ſhadow's length = A B. Hence the diagonal B D = $\sqrt{AB^2 + AD^2}$ = 493; and D C being = 364, B C = 506, the perpendicular C E is found = 343 links. Conſeq. the area of the trapezium A B C D is = 1 Ac. 1 Rood 25⅔ perches, as required.

The ſame anſwered by Mr Tho. Woolſton, *Maſter of the Boarding School, Adderbury, Oxfordſhire*.

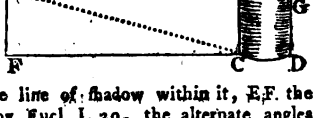
For the ſolution of this queſtion there are given, firſt, in an oblique ſpherical triangle, two ſides and the angle between them, viz. the colat. 35° 30′, the codeclination 78° 19′ 25″, and the angle at the pole, or time from noon, 82° 30′, to find the coaltitude, or ſun's zenith diſtance, the complement of which gives 13° 49′ 39″ for the altitude of his centre; and as his ſemidiameter at the time was 15′ 57″, this makes the altitude of his upper limb 14° 5′ 36″, but by the proper corrections for refraction and parallax (the firſt being for the given height 3′ 44″, and the latter 8″), the apparent altitude will be found 14° 9′ 12″. Then, by plane trigon. as tang. 14° 9′ 12″ : radius :: 100 links : 397 links = the ſide A B. Hence are given all the ſides of the trapezium, and one angle a right angle, which agrees with the firſt queſt. Dr Hutton's Menſuaration, pa. 152 2d edit. and by the method uſed there the area is found = 1 Acre 1 Rood 21 ⅕ perches, as required.

According to one or other of theſe ways was the ſolution alſo given by Meſſieurs Academicus, Amicus, Aſhton, Birch, Bowden, Bulmer, Burdon, Burton, Campbell, Cavill, Cox, Craggs, Croſbey, Dees, Dimbleby, Evans, Facer, Ferraby, Garnett, Goad, Griffith, Hartley, Heſlop, Hewitt, Holt, Hopkinſon, Howard, Hulland, Jackſon, King, Kinnebrook, Lawton, Leybourn, Liddell, Mends, Milner, Mitchell, Mooney, Morrel, Nicholſon, Nuttall, Park, Pearſon, Reed, Ridout, Rodham, Ryley, Simpſon, Skewes, Stevenſon, Surtees, Swain, Tarnior, Truſwell, Virgo, Wear, Whitcombe, White, and Wilkinſon.

III. Question 941 *answered.*

This question, like the last, may be resolved either by allowing, in the sun's altitude, for the semidiameter, refraction, and parallax, or not. And, first, without that allowance,

by Mr Tho. Ridout, *of Canterbury.*



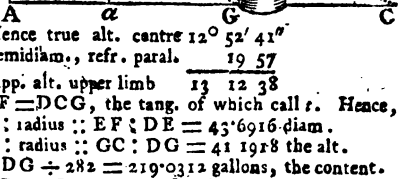
First by spherics, as in the last queſt. having given the latitude 55°, the time April 1, 1701, at 4 h. 57 min. the true altitude of the ſun's centre will be = 12° 51′ 13″. Now let ABCD be the veſſel, AG the line of ſhadow within it, EF the cane, CF its ſhadow: then, by Eucl. I. 29, the alternate angles GAB and ECF are equal; and by VI. 4, they are proportional. Then in the right-angled triangle ABG, are given all the angles, and the leg BG = 10¼ inches, to find AB the diameter = 44·919 inches; from which its area is found = 1584·75. Now, to find the height; by ſim. triangles, ſay as 44·919 : 10·25 :: 14·632 : 3·3386 = 40·0632 inches = the leaſt poſſible length of the cane, and height of the cylinder; then 1584·75 × 40·0632 ÷ 282 = 63490 ÷ 282 = 225·142 ale gallons.

But the exact length of the cane, and firſt diſtance from the veſſel, cannot be determined; for that length may be any thing not leſs than 40·0632 inches, and then the firſt diſtance will be in proportion to the increaſed length.

2d *With that allowance, by the Propoſer Mr* Rob. Wilkinſon, *North Shields.*

This queſtion is not properly limited, owing to the omiſſion of a few words, in propoſing it, which ſhould have been inſerted thus, "but going 14·632 feet nearer", where I was juſt 1½ times the length of the cane from the veſſel, "I obſerved that the &c."

Now here are given $Aa = GC = 14{\cdot}632$ feet, $EF = 10{\cdot}25$ in. and $aG = 1\frac{1}{2}\ AB$.

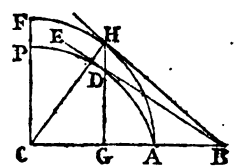


Lat.	55° 00′	Hence true alt. centre	12° 52′ 41″	
Decl.	4 38	Semidiam., refr. paral.	19 57	
Hour ∠	74 15	App. alt. upper limb	13 12 38	

$= \angle BGA = < EDF = DCG$, the tang. of which call t. Hence, in the $\triangle DEF$, as t : radius :: EF : DE = 43·6916 diam.
in the $\triangle DCG$, as t : radius :: GC : DG = 41·1918 the alt.
ſo that $\cdot 7854\, DE^2 \times DG \div 282 = 219{\cdot}0312$ gallons, the content.
Laſtly, as t : 1 :: AB : $AG = Aa + 1\frac{1}{2}$ AB.
hence AB = 5·2965 feet, the length of the cane,
and AG = 22·5767 feet, the diſtance from the veſſel at firſt.

According to one or other of these ways were the answers also given by Messieurs Academicus, Amicus, Ashton, Bulmer, Burdon, Burton, Campbell, Cox, Craggs, Crosbey, Dees, Evans, Ferraby, Garnett, Goad, Griffith, Hartley, Heslop, Holt, Hopkinson, Howard, Hulland, Jackson, Kinnebrook, Lawton, Leybourn, Liddell, Mends, Miner, Mitchell, Mooney, Nicholson, Park, Pearson, Rodham, Rowe, Ryley, Skewes, Stevenson, Surtees, Tarnier, Trufwell, Virgo, Weir, Whitcombe, White, and Woolston.

IV Question 942 *answered by* Mr Wm. Pearson, *North Shields.*



Let PDA be a quarter of the elliptical meridian of Otaheite, CA = 3987 the greater semiaxis, or radius of the earth's equator, PC = 3970 the earth's semi axis, P the south pole, and A the place of the person at the equator. Then (by Robertson's Navigat. B 8 Sec. 8 Prob. 2) let BE be drawn to touch the ellipsis in D, making with CA continued an angle CBD equal to the compl. of the given lat. ; and with CA describe the circular quadrant AF, and draw GDH parallel to CB; and join BH and CH; then BH is a tangent to the circle, and BD a tangent to the ellipsis, which will (by writers on conics) both terminate at B.

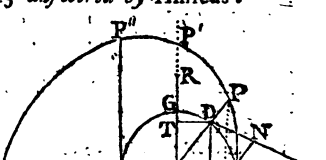
Calculat. As GD : GH or CP : CA :: tang. ∠ GBD : tang. GBH = 72° 19′ 15″, the comp. of the lat. on the sphere. Then, in the right-angled triangle CHB, as rad. : CBH :: radius : CH : CB = 4184·63, and CB — CA = AB = 197·63 miles, the height required.

The same answered by Amicus.

Given the angle BDG = 17° 45′, CA = CF = 3987, and CP = 3970. But GD : GH :: CP : CA :: tang. DBG : cot. HCB, and the secant of HCB = 4184·632 = CB, whence CB — CA = AB = 197·632 the answer.

True solutions were also given by Messieurs T. Bulmer, Wm. Burdon, Ra. Burton, J. Hartley, J. Holt, J. Jackson, Tho. Leybourn, Tho. Milner, J. Rodham, Geo. Stephenson, and Rob. Wilkinson. See also the Suppl.

V Question 943 *answered by* Amicus.



Let ADB be the circle, BPP′P″P‴ the curve. Draw the tang. DM, perp. to which draw BN, which by the property of the circle is = SB = DP, therefore $CP^2 = CB^2 + 2CB.SB + SB^2 = CB^2 + 4CB.BN - DS^2$; flux. of arc BD is $\frac{CB}{DS}.SB$, and flux. of the area CPB is $\frac{CP^2}{2CB}.DB =$

$\frac{1}{4}CB.DB + 2BN.DB - \frac{1}{2}DS.SB$; the fluent $=$ ſector CDB of the circle $+ 4$ ſegm. $BDB - \frac{1}{2}$ ſegm. $DSBD = \frac{2}{3}BDB + \frac{1}{3}$ trapezium $TDBC =$ the quadrature of BPC; and when $SB = CB$, this becomes $\frac{2}{3}$ quadrant $CGDB - 2CB^2 = CP'PB$, and $BP'P''P''' = \frac{2}{3}$ the ſemicircle.

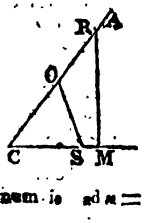
Drawing the right ordinate $PQ = y$, $BQ = x$, and $BC = a$; as $CD = CB : DS = \sqrt{2CB.SB - SB^2} :: CP = CD + BN : PQ = y$; but $CD = CB : SC = CB - SB :: CP = CB + SB : CB - QB$, therefore $CB : SB :: SB : QB = x$, and $SB = \sqrt{ax}$, alſo by the firſt analogy $ay = a + \sqrt{ax}\sqrt{2a\sqrt{ax} - ax}$, or $y^2 = 3ax - x^2 + 2a\sqrt{ax}$ is the equation of the curve, which is therefore ovaliform, and a line of the 4th order.—When $x = a$, $y = 2a = CP$; when $x = 2a$, $y = a\sqrt{2+2\sqrt{2}} = AP''$; when $x = 4a = BP'''$, $y = 0$: when y is a maximum, $DS.CP$ is a max, and $SB = \frac{1+\sqrt{3}}{2}CB$, or $\sqrt{x} = \frac{1+\sqrt{3}}{2}\sqrt{a}$.

If SB, inſtead of being ſet off on CD produced, be ſet off on SD produced from D to R, the quadrature of the curve SRB, which in this caſe is a conic ellipſis, will evidently $=$ ſegm. $SDB + \frac{1}{2}SB^2$ and area $RDBR = \frac{1}{2}SB^2$ or ſtrictly quadrable.

If SB be ſet off from D towards S, as in Kirkby's Doctrine of Ultimators, the curve, which he calls *piriformis*, will be an ellipſis equal and ſimilar to the other; as may be ſeen at large in Hutton's Miſcellany, and the quadrature $= SDB - \frac{1}{2}SB^2$.

True anſwers to this queſtion were alſo given by Meſſieurs Aſhton, Bulmer, Burdon, Cox, Craggs, Dees, Ferdinando, Garnett, Griffith, Holt, Howard, Johnſon, Kinnebrook, Lawton, Leybourn, Milner, Mooney, Nicholſon, Pearſon, Redham, Rowe, Ryley, Stevenſon, White, and Wilkinſon.

VI Question 944 *anſwered by Mr* Jos. Garnett, *jun. Richmond.*



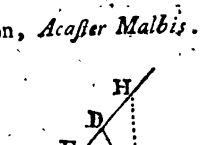
Let CA repreſent the ladder, R its centre of gravity, and OS a prop or ſupporter; from R let fall RM perpend. to CS the plane of the horizon; and put $OS = a$, $CR = r$, the weight of the ladder $= w$, and $CM = x$; then, by art. 450 Simpſon's Fluxions, the poſition of the prop OS, to ſuſtain the ladder with the greateſt eaſe, is when the angles at O and S are equal; and the weight ſuſtained by the ſaid prop $\frac{2wx}{a}\sqrt{\frac{r-x}{r+x}}$; whence, when a maximum, $x = \frac{\sqrt{5}-1}{2}r$; which being written for x in the ſaid expreſſion for the weight

on the prop, it becomes $\frac{rw}{a}\sqrt{\frac{28-12\sqrt{5}}{1+\sqrt{5}}} = \frac{rw}{a}\sqrt{10\sqrt{5}-22}$

$= \frac{720}{a}\sqrt{10\sqrt{5}-22}$ (in the preſent caſe, r being $= 12$, and $w = 60$)

where a being ſeverally expounded by 7 and 6, we get 61·77251b, and 72·06791b, for the greateſt weights ſuſtained by A and B reſpectively. Now as 6 : 5 :: 72·0679 : 60·056611b, the weight that A can ſuſtain with the ſame eaſe as B can 72·0679; but A has 61·772511b to ſuſtain; theref. he cannot raiſe the ladder with ſo great eaſe as B. *And exactly in the ſame manner was the ſolution given by Mr Da. Kinnebrook, jun. of Norwich.*

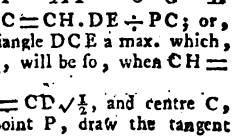
The ſame anſwered by Mr. Wm. Burdon, *Acaſter Malbis.*



It is ſhewn at art. 450 of Simpſon's Flux. that the ladder CH will make an angle with the horizon of 51° 50′, when the men AD and BE have the greateſt weight to ſuſtain; alſo CB = CE, and CA = CD. Then, as rad. : FD :: cot. FCD : CF = 7·2026, and rad. : GE :: cot. GCE : CG = 6·1736: now if H be the centre of gravity, $CK = 7\cdot4154$; hence by mechan. $\frac{CK}{CF} \times 60 = 61\cdot77271b$, and $\frac{CK}{CG} \times 60 = 72\cdot06881b$, the greateſt weight ſuſtained by A and B reſpectively; conſequ. B's ſtrength to A's ought to be as 6 to 5·1042 to raiſe the latter with as much eaſe.

Ingenious and true ſolutions were alſo given by Meſſieurs Amicus, Ja. Aſhton, Balmer, Craggs, Croſbey, Cullyer, Ferdinando, Hewitt, Howard, Leybourn, Nicholſon, Park, Rodham, Stevenſon, and White.

VII QUESTION 945 *anſwered by Mr* John Howard.



Suppoſe the thing done, and CH drawn perp. to PE. Then, by the ſim. tri. EPG, HPC and DPF, we have PC : CH :: PD : DF = CH . PD ÷ PC, and PC : CH :: PE : EG = CH . PE ÷ PC, theref. $EG - DF = CH \cdot \overline{PE - PD} \div PC = CH \cdot DE \div PC$; or, becauſe PC is given, CH . DE, or the triangle DCE a max. which, by Simpſon on the Max. and Min. prop. 4, will be ſo, when $CH = CD\sqrt{\frac{1}{2}}$; whence this

CONSTRUCTION. With radius $CH = CD\sqrt{\frac{1}{2}}$, and centre C, deſcribe an arch; to which, from the point P, draw the tangent PDHE; and the thing is done.

Nearly the ſame was the geometrical ſolution given by Meſſieurs Amicus, Aſhton, Cavill, Craggs, Ferdinando, Garnett, Kinnebrook, Lawton, Leybourn, Surtees, and White. And it was conſtructed as well for a given quantity, as for a maximum, by Mr John Rodham.

Algebraical Solution by Mr Jacob Park.

Draw DM parallel to PC. Put PC $= a$, CH $= x$, CD or CA $= r$, then is DE $= 2\sqrt{r^2 - x^2}$; but, by the sim. tri. PC : CH :: DE : EM; that is $a : x :: 2\sqrt{r^2 - x^2} : \frac{2x\sqrt{r^2 - x^2}}{a} =$ EM a max. therefore $r^2x^2 - x^4 =$ a max. the flux. of which made $= 0$, gives $r^2x - 2x^3$, or $r^2 = 2x^2$, and hence $x = r\sqrt{\frac{1}{2}}$.

Cor. Since $\sqrt{\frac{1}{2}}$ is the sine of 45°, therefore the angles CDH and CEH are each equal to 45°; and also the angle DCE is a right one.

And thus was the algebraical solution given by Messieurs Academicus, Ashton, Bulmer, Cox, Dees, Ewbank, Facer, Hartley, Mitchell, Mooney, Nicholson, Pearson, Ryley, Stevenson, and Wilkinson.

VIII Question 946 *answered by Mr* Chr. Cox, *Dublin*.

A column of quicksilver 30 inches high and 5 in diameter is $5^2 \times 30 \times .7854 = 589.05$ inches, which, at 8.102 oz. each inch, weighs 4772.48 oz. or 298.28 lb. which is the pressure of the atmosphere alone, and equal to the elasticity of the air in its natural state; to this adding the 100 lb. gives 398.28 lb. the whole external pressure. Then, as the spaces which a quantity of air possesses, when under the influence of different pressures, are in the reciprocal ratio of those pressures, it will be as 398.28 : 298.28 :: 10 feet or 120 inches : 89.87 inches, the space occupied by the air; and therefore 120 — 89.87 $=$ 30.13 inches, is the distance sought.

The same answered by Lt. T. H. Fenwick, *of Royal Artil.*

Let $x =$ the length required;

Then is $10 - x$ the space in which the air is confined.

And if $a =$ 298.16 lb. the pressure of the atmosphere on a circle whose diameter is 5 ine. (the caliber of the gun) the barometer standing 30 inches high;

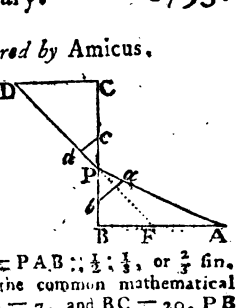
Then is $a + 100$ lb. the force which retains the air in the above-mentioned space; and these forces being reciprocally as the spaces, therefore $a : a + 100 :: 10 - x : 10$;

and hence $x = \frac{1000}{a + 100} =$ 2 feet 6 inches.

Observation. If f denote any force in general, then will $x = \frac{10f}{a + f}$ be the distance the sponge can be pushed down by the force f; which being always less than 10, it is evident that the force may be increased continually, without ever being able to get the sponge entirely home; if the vent be stopped, and no air escape by the side of the sponge.

Mr. Rodham gave a general solution for the velocity and time of introducing the sponge in any given space, as well as determined the greatest space it can go. And other true and ingenious solutions were given by Messieurs Academicus, Amicus, Ashton, Bulmer, Craggs, Dalton, Dixon, Garnett, Griffith, Hewitt, Holt, Howard, Kinnebrook, Lawton, Mooney, Nicholson, Ryley, Stephenson, and White.

IX Question 947 *answered by* Amicus.



As this has been done so many times before, the following new and easy method is given for the sake of variety.

Let P be the point where the river is to be crossed, and because CB is given, cP the variation of $CP = bP$ that of BP; let fall cd and ba; then because $\frac{1}{3}DP + \frac{1}{2}AP$ is a minimum, $\frac{1}{3}dP = \frac{1}{2}aP$; but $dP : aP :: \text{sin. } Pcd = PDC : \text{sin. } Pba = PAB :: \frac{1}{3} : \frac{1}{2}$, or $\frac{2}{3}$ sin. $PDC = \text{sin. } PAB$; and hence, from the common mathematical tables, by a few trials, CD being 5, AB = 7, and BC = 20, PB is found = 5·6704058 73.

Nearly in the same manner was the geometrical solution by Ferdinando, and by Mr Redham, who farther observes, that, having found $m(2) : n(3) ::$ co. BPA : cos. CPD or :: sin. A : sin. D or sin. F :: PF : PA, where DP is produced to F, then the algebraic solution may be thus: Put $x = BP$, $a = AB$, $b = CD$, and $c = BC$; then, by sim. tri. $PC : PB :: CD : BF = \frac{bx}{c-x}$; hence $\frac{b^2x^2}{(c-x)^2} + x^2 (PF^2) : a^2 + x^2 (PA^2) :: m^2 (4) : n^2 (9)$; whence, putting $d = n^2 - m^2 = 5$, is obtained

$dx^4 - 2cdx^3 + n^2b^2 + c^2d - m^2a^2 . x^2 + 2cm^2a^2x - m^2a^2c^2 = 0$;

where $x = BP$ will be found = 5·6704 miles.

The same by Mr Kinnebrook, *jun. Norwich.*

Put $a = 7 = AB$, $b = 5 = DC$, $2s = PC + PB$, and $2x = PC - PB$, then $PC = s + x$, and $PB = s - x$; now by Eucl. 47 of I,

$PD = \sqrt{b^2 + (s+x)^2}$, and $PA = \sqrt{a^2 + (s-x)^2}$;

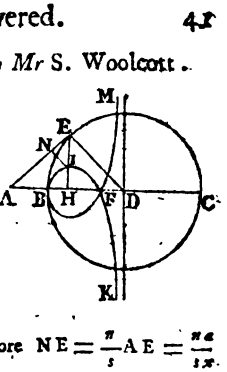
whence $\frac{1}{3}\sqrt{b^2 + (s+x)^2} + \frac{1}{2}\sqrt{a^2 + (s-x)^2}$ or

$2\sqrt{b^2 + (s+x)^2} + 3\sqrt{a^2 + (s-x)^2}$ is to be a minimum; which

in fluxions gives $x^4 - 194\frac{1}{5}x^2 - 1684x = -1050$; hence $x = 4·3296$, and conseq. $PC = 10 + x = 14·3296$, and $PB = 10 - x = 5·6704$.

True and ingenious solutions were also given by Messieurs Academicus, Abbott, Baron, Bengal Officer, Brady, Brewer, Burdon, Cavill, Cox, Craggs, Crosbey, Dees, Evans, Eubank, Fenwick, Fox, Garnett, Griffith, Hartley, Hewett, Hewitt, Holt, Howard, Hulland, Lewton, Leybourn, Liddell, Millner, Milner, Mooney, Mulcaster, Nicholson, Park, Pearson, Reed, Rowe, Ryley, Simpson, Skewes, Surtees, Trufwell, Whitcombe, and Wilkinson.

QUESTION 948, *anſwered by Mr* S. Woolcott.



Let AE be a tangent drawn to the circle at E, meeting the diameter CB produced in A; divide the tangent in N in the given ratio of m to n, and erect the perpendicular NI interſecting the ordinate EH in I; then I will be a point in the curve. Put the radius of the circle BD $= a$, DH $= x$, and HI $= y$. Then, by the property of the circle, HD : HE :: DE : AE $= \frac{a}{x}\sqrt{a^2 - x^2}$; but AN : NE :: m : n, or AE : NE :: $m + n$: n, therefore NE $= \frac{n}{s}$AE $= \frac{na}{sx}\sqrt{a^2 - x^2}$, putting $m + n = s$; alſo, by the ſim. tri. NEI and HDE, HD : DE :: NE : EI, or x : a :: NE : $\frac{a}{x}$NE $= \frac{na^2}{sx^2}\sqrt{a^2 - x^2} =$ EI; theref. HI or $y = \sqrt{a^2 - x^2} - \frac{na^2}{sx^2}\sqrt{a^2 - x^2} = \frac{sx^2 - na^2}{sx^2}\sqrt{a^2 - x^2}$ the equation of the curve.

Hence, when $x = a\sqrt{\frac{n}{s}}$ or $a\sqrt{\frac{n}{m+n}}$, then $y = 0$; and when $x = a$, then $y = 0$ alſo; but when $x = 0$, y is infinite. Let the ratio of m to n be what it will, the curve will have a nodus between B and D, and F its punctum duplex, and paſſing through which it branches out into two infinite legs FK and FM, to which a perp. drawn through D, the centre of the circle, will be an aſymptote. If $m = 3n$, then $x = \frac{1}{2}a =$ BF the diam. of the nodus, and the curve is Newton's 41ſt ſpecies; but if $m = 0$, the nodus becomes a cuſpis, and the curve is the ciſſois veterum, or the 42d ſpecies.

The ſame by Mr Joſeph Garnett, jun.

After giving a ſolution and obſervations, exactly as above, this gentleman adds, The area of the curve may be eaſily found. For the fluxion of the area BIH is HI $\times$ BH $= y\dot{x} = \dot{x}\sqrt{a^2 - x^2} - \frac{n}{s} \times \frac{\dot{x}\sqrt{a^2 - x^2}}{x^2}$, the fluent of which is eaſily found from the circle.

Ingenious ſolutions were alſo given by Meſſieurs Amicus, Wm Aſhton, J. Craggs, Ra. Dees, J. Howard, Wm. Johnſon, Wm. Lawſon, J. Nicholſon, J. Rodham, J. Ryley, Geo. Stevenſon, and Thos Wilſ.

XI QUESTION 949, *answered by Mr* J. Holt, *Master of the Mathematical School, Manchester.*

Mr Hellins, in his Math. Essays, p. 108, determins $d = a^2 \times (\cdot 5965736 - \frac{1}{2}\,\text{h. l}\,a.)$; consequently when $d = 0$, then h. l. $a = 1\cdot 1931472$, and $a = 3\cdot 297446$; which value of a, and 100 for x, being used in the series in the question, z comes out $= 5025\cdot 03748$ as required. Or if the same values be substituted in the correct fluent of $z = x\sqrt{aa + xx}$, viz. $z = \frac{1}{2}x\sqrt{a^2 + x^2} + \frac{1}{2}a^2 \times \text{h. l.}\,\frac{x + \sqrt{a^2 + x^2}}{a}$, it brings out the same value of z.

The same by Mr Thomas White, *of Dumfries.*

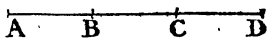
I am not certain whether this can be deemed a fair question. The author is indeed named, but unless the book be at hand, the method of determining the correcting quantity d, is not very obvious; it is in this alone that the difficulty of treating the question consists, since the value of a must be determined upon the hypothesis of $d = 0$, before any attempt be made to sum the series; and therefore the proposer has an advantage which many must want. Mr White then makes out a solution by another series according to the method used at pa. 426 of M. Cousin's Leçons de Calcul Differential, &c.

And according to the former of these methods was the answer given by the Rev. Mr Hellins.

This question was also answered by Messieurs Amicus, Dalton, Ferdinando, J. Griffith, J. Howard, D. Kinnebrook, and J. Ryley.

XII QUESTION 950, *answered by Mr* Chr. Cox, *Dublin.*

It is evident, from Eucl. II 5, that, wherever the point C is, the rectangle AB × BC will be the greatest, when AC is bisected in B, and for the same reason the rectangle BC × CD will be the greatest when the line BD is bisected; therefore when the given line AD is trisected, the sum of the rectangles of the parts will be a maximum. Mr Cox also brings out the same conclusion algebraically.



The same by Mr W. Virgo.

It is demonstrated by Mr Simpson, in his Geometry, Theor. I. on the Max. and Min. that, of all the rectangles that can possibly be contained under the two parts of a given right line, any how divided, that will be the greatest whose sides are equal to each other. Hence it follows, that the sum of all the rectangles, whatever be their number, under all the parts of a given right line, can only be a maximum when all those parts are equal to each other.

And nearly in the same manner was the geometrical solution given by Messrs. Amicus, Dalton, Fox, Garnett, Goad, Holt, Kinnebrook, Lawton, Mooney, Pearson, Rodham, and White.

Algebraically by Mr J. Nicholſon.

Put $a = AD$, $x = AB$, $y = BC$, and $z = CD$; then is $xy + xz + yz =$ a max. and $x + y + z = a$; hence $z = a - x - y$. which ſubſtituted in the max. gives $ay - y^2 + ax - x^2 - xy =$ a max. This in flux. making firſt y conſtant, and then x conſtant,

gives $a\dot{x} - 2x\dot{x} - y\dot{x} = 0 = a - 2x - y$,

and $a\dot{y} - 2y\dot{y} - x\dot{y} = 0 = a - 2y - x$;

putting theſe laſt two equal, gives $x = y$. And in the ſame manner $x = z = y$, ſo the parts are all equal.

And nearly in the ſame manner was the algebraical ſolution given by Meſſieurs Academicus, Aſhton, Brady, Bulmer, Burdon, Cavil, Cox, Craggs, Croſbey, Dees, Ewbank, Fenwick, Ferdinando, Griffith, Hartley, Hewitt, Howard, Hulland, Liddell, Maſeres, Mooney, Park, Reed, Rowe, Ryley, Sampſon, Simpſon, Skewes, Stevenſon, Surtees, Truſwell, and Wilkinſon.

XIII Question 951, *anſwered by Mr John Dalton, Kendal.*

By the word noon, in this queſtion, I ſuppoſe is meant 12 o'clock, the clock being duly regulated. It is well known that at the ſummer ſolſtice the clock is before the ſun, and conſequently the equation of time is then to be added to the time per clock, or mean time, to reduce it to apparent time; hence, the equation of time being upon the increaſe, the afternoons are longer than the forenoons, and are increaſing on that account. And as the days decreaſe very ſlowly after the ſolſtice, by the ſlow decreaſe of the declination, and the equation of time increaſing faſt, the length of the afternoons will continue to increaſe after the ſolſtice, till the decreaſe of the lengths of the days balances the equation of time. Hence the calculation will be eaſy to any one furniſhed with a Nautical Ephemeris. Having the lat. and ſun's declination, the length of the day is had by finding the ſun's aſcenſional difference; thus, as radius : tang. lat. 59° 56′ :: tang. declin. : ſin. of aſcenſional difference. Hence we have

June	Sun's Decl.	Aſcen. Dif.	Semi-day.	Eq. time.	Afternoon.
			h. m. s.		h. m. s.
20	23° 27′ 48″	48° 34′ 18″	9 14 17·2	- 1′ 12″·7	9 15 29·9
21	23 27 43	48 34 16	9 14 16	- 1 25 ·8	9 15 41·8
22	23 27 13	48 32 30	9 14 10	- 1 38 ·5	9 15 48 8
23	23 26 19	48 29 42	9 13 58·8	- 1′ 51 ·7	9 15 52·5
24	23 25 0	48 25 37½	9 13 42·5	- 2 4 ·5	9 15 47·

From which it appears that the afternoon of the 23d of June will be longeſt of any in the year at that place.—*And nearly in this manner was the ſolution by Mr. Holt.*

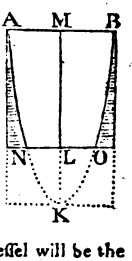
The queſtion was alſo anſwered by Meſſieurs Amicus, Griffith, Sanderſon, and Wilkinſon.

XIV Question 952, *anſwered by Amicus.*

I do not ſee that any thing can be determined with preciſion, concerning this phyſical queſtion, till the water has acquired the ſame

rotatory velocity as the veſſel, which, if we ſuppoſe to be covered cloſe, till the water has acquired that circulatory velocity; then, the cover being taken off, it will fall in the middle, riſe at the edge of the veſſel, and fly off in the direction of tangents to its top, forming itſelf within into a hollow curved ſurface, till, its bounding curve being every where perp. to the direction of the ſingle force compounded of gravity and the centrifugal one; when no one particle of the ſurface having any tendency either to riſe or fall, it muſt reſt in equilibrio; the effluent horizontal velocity continuing uniform till then, but the quantity thrown out per ſecond diminiſhing till it vaniſhes, no more water can be forced over. And, by Bernoulli's Hydrodynamica ſect. 11th, if $g = 32{\cdot}2$ the force of gravity, the water in that circumſtance will form itſelf into the hollow ſurface of a paraboloid, whoſe equation is $gx = 800y^2$; and at the top of the veſſel, y being $= 1$, $x = 800 \div g = 24{\cdot}84472$, and at the bottom of the veſſel, when $x = 20{\cdot}84472$, $y = {\cdot}91597$ the radius of the circle left dry at the bottom of the veſſel: hence it will eaſily be found that ·9195 of the whole quantity of water will flow over.

The ſame anſwered by Mr Geo. Stevenſon, *Howdon*.



It is proved at Schol. 1ſt to the ſolu. of queſt. 797 in the Ladies' Diary for 1783, or queſt. 14 Gent. Diary for 1789, that the curve AKB will be a parabola, or the concave ſurface of the water a paraboloid. The equation there given is $n^2fx = 2p^2y^2$, where n is the time of one revolution in ſeconds, $f = 32\frac{1}{6}$, $p = 3{\cdot}1416$, x the abſciſs of the parabola, and y its ordinate. In the preſent caſe n being $= 2py \div 40 = 157{,}$, and $y = AM = 1$, therefore $x = KM = 2p^2y^2 \div n^2f = 24{\cdot}87{,}$ which being greater than the depth of the veſſel, a part of the bottom will be dry, and the empty part of the veſſel will be the fruſtum of a paraboloid, whoſe height ML is 4 feet, and its content 11·556 feet $=$ 70·82 ale-gallons, the quantity which will overflow.

The ſame by Mr John Ryley, *of Leeds*.

When the veſſel is put in motion, it is evident that every particle of the fluid will be agitated, and endeavour to recede from the axis of the veſſel; and while part is forced over, the concavity will continually increaſe till an equilibrium obtains, and then the water will remain permanent.——Now let AKB be a ſection of the cavity through the axis KM; and put $KL = x$, $LN = y$, $KN = z$, $32\frac{1}{6} = m$, $3{\cdot}1416 = p$, and the time of one revolution in ſeconds or $2p \div 40 = n$; then, by the reſolution of forces, $m\dot{x}z^{-1}$ is the force of gravity in direction of the curve at N; and $4p^2yn^{-2}$ the centrifugal force at N in the direction LN, and the ſame in direction of the curve is $4p^2y\dot{y}n^{-2}\dot{z}$; and theſe two oppoſite forces muſt be equal in

the caſe of an equilibrium. Hence then, $m\dot{x} = 4p^2y\dot{y}\bar{n}^2$ or $mn^2\dot{x} = 2p^2y\dot{y}$, the fluent of which is $mn^2x = 4p^2y^2$, the equation to a parabola. Now when x becomes $= KM$, then $y = 1$, and $x = 2p^2 \div mn^2 = 800 \div m = 24\cdot8704$. Alſo by the nature of the curve $KL : KM :: AM^2 : 1.N^2 = \cdot83917$, and the content of the fruſtum ABON is $= 11\frac{5}{6}$ very nearly, which is the quantity of water that runs over, and is only one foot leſs than the content of the veſſel, ſo that there will be only one foot of water left in it.

Other ingenious anſwers were given by Meſſ. Griffith, Holt, Howard, Kinnebrook, Lawton, Mudge, Nicholſon, Park, Rodham, Sampſon, and White.

XV *or* Prize Queſtion *anſwered by Mr* Thomas Leybourn.

The ſum of n terms of the propoſed ſeries $1^2, 2^2, 3^2$, &c. it is well known is equal to $\frac{1}{6}n.n+1.2n+1$, which is to be a ſquare number greater than 1 by the queſtion. Put $2n+1 = z^2$, then will $n = \frac{z^2-1}{2}$, and hence $\frac{1}{6}n.n+1.2n+1 = \frac{z^4-1}{24}$. z^2 a ſquare n°. greater than 1. Suppoſe it $= y^2$, then $z^4 = 24y^2+1 =$ a ſq. n°. $=$ ſuppoſe $\overline{xy-1}^2 = x^2y^2-2xy+1$, then will $y = \frac{2x}{x^2-24}$ which muſt be a whole poſitive number; to produce which, x muſt be either 5 or 6, and nothing elſe; but it muſt not be 6, for then y would be only 1, whereas it ought to be greater than 1. The value of x can therefore be nothing but 5; for then this gives $y = 10$, $z^4 = 2401$, or $z^2 = 49$; and $n = 24$ the only poſſible number of the terms; and thence $\frac{1}{6}n.n+1.m+1 = 4900 = 70^2$ the ſquare ſought.

The ſame anſwered by Mr Charles Brady.

It is well known that $1^2+2^2+3^2$ &c. $\cdots+n^2 = \frac{1}{6}n.n+1.2n+1$, which muſt be a ſquare number; therefore put $6r^2 = n$, which ſubſtituted above gives $r^2.6r^2+1.12r^2+1 =$ a ſq. and conſequently $6r^2+1\cdot12r^2+1 = 72r^4+18r^2+1 = 81r^4+18r^2+1-9r^4 = \overline{9r^2+1}^2-\overline{3r^2}^2$ muſt be a ſquare number; where it is ſeen that $9r^2+1$ and $3r^2$ muſt be the hypothenuſe and one leg of a right angled triangle; therefore take the other leg $= 9r^2-1$; then will $\overline{9r^2+1}^2-\overline{9r^2-1}^2 = 3r^2$, which gives $r = 2$; and hence $n = 6r^2 = 24$ the n°. of terms of the ſeries.

We are particularly ſorry that our limits will not permit us to inſert the general inveſtigations of our learned Correſpondents Amicus and Mr John Dalton, as well as the many other very ingenious ſolutions to this queſtion by Meſſ. Bengal Officer, Tho. Pulmer, John Cavill, Chr. Cox, Daædoters. Ra. Dees, J. Ewbank, Jos. Garnett, J. Holt, J. Howard, Da. Kinnebrook, Wm Lawton, Mr. Mooney, Jas

Malcaſter, J. Nicholſon, Wm. Pearſon, Peter Phelan, John Rodham, Alex. Rowe, John Ryley, J. Sampſon, Tho. White, Tho. Whiting, and Rob. Wilkinſon.

NEW QUESTIONS.

I QUESTION 954, *by Mr* Tho. Nield, *Maſter of a Boarding-School, Hawarden.*

There are three numbers in continued proportion, the product of which is 4096, and the ſum of the two extremes is 68. The double of the mean is my age in years, half the leaſt extreme is the month; and one-fourth of the greateſt the day of the month that gave me birth. Required my age, with the month and day in which I was born.

II QUESTION 955, *by Mr* J. Hartley, *Fleet-Street.*

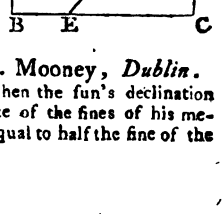
A perſon is indebted 250l. who by induſtry has ſaved 8l. 5s. and promiſes his creditors, he will add five ſhillings each quarter to the above 8l. 5s. placed at compound intereſt, which he has an opportunity of doing at the rate of 4l. per cent. per annum, or 1 per cent. per quarter, the intereſt becoming due quarterly. Required in what time will the debt be diſcharging, by a general theorem that will anſwer the ſame for as many millions.

III QUESTION 956, *by Mr* Robert Wilkinſon, *North-Shields.*

Having to ſurvey a field in form of a trapezium (which I was not allowed to enter) at one end of its longeſt ſide I found that the angle ſubtended by the oppoſite corner of the field and that ſide was equal 42° 28′, and I was informed the ſaid oppoſite corner was a right-angle; going now further off in the direction of the ſaid ſide to 520 links from my former ſtation where I found the oppoſite and longeſt ſide would meet and form an angle of 30° 16′, from whence my diſtance to the neareſt end of the ſaid oppoſite ſide was 730 links. Required the area of the field.

IV QUESTION 957, *by Mr* E. Benſon.

In the rectangular parallelogram ABCD, there is given AB = 26, and AD = 39; to find the poſition of the right line EFG = 65, ſuch that the right-angled triangle FGD, whoſe area is required, may be equal the ſpace ABEF.



V QUESTION 958, *by Mr* Mich. Mooney, *Dublin.*

In a certain north latitude laſt ſpring when the ſun's declination was double his altitude at ſix; the difference of the ſines of his meridian altitude and midnight depreſſion was equal to half the ſine of the latitude. Quere the time and place.

VI QUESTION 959, *by Mr* James Aſhton, *Harrington*.

It is required to reſolve queſtions 58 and 59, at page 315 of Hutton's Compendious Meaſurer, without the aſſiſtance of Algebra.

VII QUESTION 960, *by Mr* John Liddell, *Hovingham*.

Admit the latitude of Hovingham to be 54° 10′, from which Thirſk lies 18 miles due weſt, and Malton 9 due eaſt; now this 27 miles is the ſide of a ſpherical triangle, the oppoſite angular point of which is due eaſt of Thirſk and upon the meridian of Malton. Quere the latitudes of the ſaid places, and the number of acres contained in the ſpherical triangle, ſuppoſing the circumference of the earth to be 25000 miles.

N. B. This queſtion has appeared a paradox to ſome, to remove which, it is here propoſed.

VIII QUESTION 961, *by Mr* Tho. Woolſton, *Adderbury*.

Being out one day in the ſpring, 1792, ſurveying ſome land, ſome of my pupils were deſirous of knowing the diſtance of a ſteeple which we ſaw a conſiderable way off, in the north-eaſt quarter: to gratify them, I fixed my theodolite, and having ordered a mark to be ſet up for a ſecond ſtation, in a convenient place, which bore exactly NW ¼ W from us, I obſerved that the ſteeple and the mark ſubtended an angle of 103° 52′, and the diſtance between the two ſtations meaſured 3650 links; and upon fixing the inſtrument at the 2d ſtation, when I had adjuſted the ſights to the bearing of the ſteeple, I obſerved the ſhadow of the ſight exactly to coincide with the direction of the index; I therefore immediately took the ſun's altitude, and found it 39° 49′ ½. The declination at that time was 18° 9′ north, and the latitude of the place 52° 5′ north. Required from hence, the time when the obſervation was made, and the bearing and diſtance of the ſteeple from our 2d ſtation.

IX QUESTION 962, *by Mr* John Ryley, *Leeds*.

As I was walking out one evening laſt ſummer, I obſerved a perſon at a diſtance dropping a ſtone into a coal-pit; the noiſe made by ſtriking againſt the bottom, reached my ear exactly $\frac{1}{3}$ part of the time that the ſtone was in falling, and the perſon at the brink of the pit heard the ſound one ſecond ſooner than I did. Required the depth of the pit.

X QUESTION 963, *by the Rev. Mr* John Sampſon.

Given $\frac{\dot{x}}{x}+\frac{\dot{y}}{y}=\frac{x^m\dot{x}}{ay^n}$, to find the relation of x and y.

XI QUESTION 964, *by* Ferdinando.

ABC is a given ſemicircle, O its centre, and with any line CD as a radius there is deſcribed the arch DF; it is required to find the length of the ſaid radius ſo, that the quadrature of the ſpace DFC, cut off the ſemicircle by the ſaid arch DF, may be equal to any given quantity.

XII Question 965, *by Mr* John Rodham, *Richmond.*

A veſſel being filled with water, it is obſerved, on emptying it by a hole in the bottom, whoſe area is one inch, that the perpendicular deſcent of the ſurface of the water, is uniformly 4 inches per minute; the perpendicular height of the veſſel is 5 feet, required its content in ale gallons.

XIII Question 966, *by* Vertigo.

Let AB be a given horizontal plane. It is required to find the length and poſition of another plane AC, meeting BC perp. to AB in C; ſuch that a heavy body, deſcending freely along it from C, after quitting it at A, may ſtrike another horizontal plane MD at the greateſt diſtance poſſible from D; and alſo to determine that diſtance.

XIV Question 967, *by* Amicus.

If from the fixed right angle of a triangle, a perp. be let fall to the hypothenuſe (which is given and conſtant) in every poſſible poſition of it, required the equation of the curve which is the locus of the end of the perpendicular, together with its quadrature and reſtification, by means of thoſe of the conic ſections.

XV, *or* Prize Question 968, *by Mr* Da. Kinnebrook, *jun.*

Suppoſe an uniform ſlender rod AB, parallel to the horizon, (conſidered without regard to its weight) to have two equal bodies fixed to it, one at each end, and to revolve round the point C in that rod as a centre in any given time; the length of the rod being given, as alſo CD the diſtance of the middle of the rod from the centre of motion C: it is required to determine the velocity with which the rod paſſes through the point C, as alſo the time of deſcription. Suppoſing AB = 100 feet, CD = 1 inch at firſt, and the time of each revolution 20 ſeconds.

*** *The Prizes for the ſeveral ſolutions have been determined by lot as follows: Firſt, for the Prize Queſtion, to Mr Tho. Leybourn* 10, *and Mr John Rodham*, 8 *Diaries.*—2*d, for the Prize Ænigma, to Miſs Nancy Dent and Mr. Tho. Nield, each* 8 *Diaries.*—3*d, for the general Anſwers to the Enigmas, to Miſs Loviſa Amelia Harpur and Mr John Fildes, each* 8 *Diaries.*—4*th, for Rebuſes, Queries, &c. to the Rev. Mr Evahank and Miſs Nancy Maſon, each* 6 *Diaries. All of whom will pleaſe to ſend for them to Stationers-Hall.*

But the letters for the uſe of the Diary to be directed thus, "The Author of the Ladies' Diary, Stationers-Hall, London." And they muſt be franked or poſt paid, or they will not be received; and the laſt of them muſt be ſent before the firſt of May, but thoſe for the Solution of the Prize Enigma and Prize Queſtion before Candlemas Day. And along with all new Enigmas, Rebuſes, Charades, and Queſtions, muſt be ſent their ſolutions.

FINIS.

VOX STELLARUM:

OR, A LOYAL

ALMANACK

For the Year of HUMAN REDEMPTION

1793.

Being the First after BISSEXTILE, or LEAP-YEAR.

In which are contained

All Things fitting for such a WORK; as,

A TABLE of TERMS and their RETURNS;

The Full, Changes, and Quarters of the MOON;
The Rising, Southing, and Setting of the SEVEN STARS, and other Fixed Stars of Note; the MOON's Age, and

A TIDE TABLE fitted to the same;

The Rising and Setting of the SUN; the Rising, Southing, and Setting of the MOON; Mutual Aspects, Monthly Observations; and many other Things, useful and profitable.

UNTO WHICH ARE ADDED,

Astrological Observations on the Four Quarters of the Year,

An HIEROGLYPHIC, alluding to these present Times;
A remarkable CHRONOLOGY; the ECLIPSES;

And other MATTERS, both curious and profitable.

With farther Observations on the Weather, &c.
and on the new-discovered Planet.

By FRANCIS MOORE, Physician.

1774 93

LONDON.

Printed for the COMPANY of STATIONERS, 1793.
And Sold by ROBERT HORSFIELD, at their Hall in LUDGATE STREET [Price Ten Pence, stitched.]

Hail, blooming Year! Heaven ne'er denies thy Smiles
To our great Monarch, and his happy Isles;
May his wise Councils every where succeed,
Whilst all his Foes, with Grief, do inward bleed;
We safe at Home, in Peace, yet fierce and bold,
Tho' Janus brings this Month Increase of Cold.

M D	W D	Fasts and Festivals.	☉ ♑	☽'s Signs	☽'s A	☽ rises and sets	Mutual Asp. and Weather
1	Tu	Circumcision.	12	back	19	8 a 30	☌ ☉ ☿
2	W	Day br. 5 58	13	bowels	20	9 32	The new
3	Th	Tw. ends 6 2	14	belly	21	10 35	year begins
4	F	Day 7 56 long	15	reins	22	11 41	with some
5	S	Old Christm-d.	16	and	23	morn.	rain or snow.
6	F	2 S. af. Ch. Epip.	17	loins	24	0 48	*Twelfth d.*
7	M	*Flow Monday.*	18	secret	25	1 57	✱ ♄ ♀, □ ♃ ♀
8	Tu	*Lucian.*	19	memb.	26	3 8	More mild,
9	W	Night 15 56 l.	20	hips	27	4 21	but cloudy
10	Th	♃ ris. 3 40 mor.	21	thighs	28	5 31	and thick
11	F	♀ sets 7 32 aft.	22	knees	29	6 35	misty air.
12	S	O. N. Y. day.	23	hams	N	sets	Cold and
13	F	1 S. aft. Epiph.	24	*Hilary.*	1	*C. T. b.*	✱ ♀ ☿
14	M	*Oxf. Term. beg.*	25	ancles	2	7 a 21	□ ☉ ♄
15	Tu	Day br. 5 50	26	feet	3	8 40	cloudy, if
16	W	Tw. ends 6 11	27	toes	4	9 57	not frost and
17	Th	O. Twelfth-day	28	head	5	11 10	snow, about
18	F	Queen's b. d. k.	29	face	6	*Prisca.*	✱ ♄ ♂
19	S	Day 8 28 long	♒	neck	7	0 m 20	the new
20	F	2 S. aft. Epiph.	1	and	8	*Fabian.*	□ ♃ ♂
21	M	*Agnes.*	2	throat	9	2 33	moon.
22	Tu	*Vincent.*	3	arms	10	3 33	More tem-
23	W	*Hilary T. beg.*	4	should.	11	4 30	perate wea-
24	Th	Night 15 18 lo.	5	breast	12	5 23	ther, and
25	F	Conv. St. Paul.	6	stom.	13	6 7	agreeable
26	S	♃ rises 2 42 m.	7	heart	14	6 46	state of air.
27	F	Sep. S. P. A. F. E.	8	and	F	rises	
28	M	♀ sets 8 20 aft.	9	back	16	6 a 13	
29	Tu	Day br. 5 35	10	bowels	17	7 14	Somewhat
30	W	K. Ch. I. mar.	11	and	18	8 17	frosty.
31	Th	Tw. ends 6 28	12	belly	19	9 22	

The 8 day, at noon, Jupiter
The 11 day, at 2 morn. Mercury
The 14 day, at 6 morn. Mars
The 15 day, at 1 morn. Venus
The 18 day, at 7 aftern. Saturn
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
1	8 4	3 56	2m 46	*Rain fell in January, 1791, was 1,957 Inches.*
2	8 4	3 56	3 30	Rain or Snow (more or less) may be
3	8 3	3 57	4 13	expected about the 2, 7, 14, 21, and
4	8 2	3 58	4 56	LAST Quart. 5 day, at 1 aftern.
5	8 2	3 58	5 41	27 Days of this Month; the Day be-
F	8 1	3 59	6 27	fore or the Day after; that is, within
7	8 0	4 0	7 15	the Compass of three Days.
8	7 59	4 1	8 7	
9	7 58	4 2	9 5	
10	7 57	4 3	10 2	At the Top of each Month, you
11	7 56	4 4	11 3	have the depth of Rain which fell in
12	7 55	4 5	0 a 5	NEW Moon 12 day, at 9 morn.
F	7 54	4 6	1 6	each of those Months at LONDON, in
14	7 52	4 8	2 4	the Year 1791; and was truly ascer-
15	7 51	4 9	2 59	tained by a very accurate *Pluviameter*
16	7 50	4 10	3 52	or Rain-Gage, which was well adapted
17	7 49	4 11	4 42	for the Purpose. This Measurement
18	7 47	4 13	5 30	is put down in Inches and Decimal
19	7 46	4 14	6 18	FIRST Quart. 19 day, at 2 morn.
F	7 45	4 15	7 6	Parts of an Inch, and is what the Depth
21	7 43	4 17	7 53	would have been, had it stagnated upon
22	7 42	4 18	8 41	the Earth, on an even Plain or Sur-
23	7 40	4 20	9 29	face, and had not been imbibed by the
24	7 39	4 21	10 17	Earth, or lessened by Evaporation. By
25	7 37	4 23	11 4	adding up the different Numbers, you
26	7 36	4 24	11 50	will find that the Height, which the
F	7 34	4 26	morn.	Water would have risen in and about
28	7 33	4 27	0 35	FULL Moon 27 day, at 5 morn.
29	7 31	4 29	1 20	London, from the 1st of *January*, 1791,
30	7 29	4 31	2 3	to
31	7 28	4 32	2 46	

Whence flows the hidden Springs of Nature's Store,
That this Month ſeems to open? rather more
Repleniſhing than others Ponds and Ditches,
(As Miſers fill their Money-bags with Riches);
But this is ſurely for a ſecret Store,
Againſt the approaching Spring that's never poor.

M D	W D	Faſts and Feſtivals.	☉ ♒	☽'s Signs	☽'s A	☽ riſes and ſets	Mutual Aſp. and Weather
1	F	Day 9 8 long.	13	reins	20	10 a 29	Cloudy and
2	S	Purif. or Can. d.	14	loins	21	11 36	unſettled
3	F	Sexageſima S.	15	ſecret	22	morn	*Blaſt.*
4	M	Night 14 42 l.	16	memb.	23	0 44	weather.
5	Tu	*Agatha.*	17	hips	24	1 53	△ ♃ ☿
6	W	♃ riſes 2. 2 m.	18	thighs	25	3 3	□ ♄ ☿
7	Th	☿ ſets 8 47 aft.	19	knees	26	4 6	Roughwinds
8	F	Day br. 5 20	20	hams	27	5 6	✶ ♃ ☿
9	S	Tw. ends 6 42	21	legs	28	5 57	driving rain
10	F	Quin. Shrove S.	22	ancles	N	ſets	or ſnow.
11	M	Day 9 44 long	23	feet	1	6 a 15	
12	Tu	Shrove Tued.	24	toes	2	7 25	*Hil. T. ends.*
13	W	Aſh Wedneſd.	25	head	3	8 43	Q. Candl D.
14	Th	*Valentine.*	26	face	4	9 58	Seaſonable
15	F	*Camb. T. div. n.*	27	neck	5	11 10	weather.
16	S	Night 13 58 l.	28	and	6	morn	
17	F	Q. A. 1 S. Lent.	29	throat	7	0 18	Froſty air,
18	M	♃ riſes 1 27 m.	♓	arms	8	1 22	✶ ☿ ☿, □ ☉ ♃
19	Tu	☿ ſets 9 21 aft.	1	ſhould.	9	2 22	with ſome
20	W	Ember Week	2	breaſt	10	3 15	ſleet or cold
21	Th	Day br. 4 57	3	and	11	4 3	rains.
22	F	Tw. ends 7 5	4	ſtom.	12	4 44	Rough bluſ-
23	S	Day 10 30 long	5	heart	13	5 20	tering winds
24	F	2 S. in Lent. St. Matthias.			14	5 53	towards the
25	M	[Pr. Ac. Fr. b.			F	riſes	end, with
26	Tu	Night 13 19 l.	8	bowels	16	6 a 10	✶ ♄ ☿
27	W	♃ riſes 0 57 m.	9	belly	17	7 14	rain or ſnow.
28	Th	☿ ſets 9 46 aft.	10	reins	18	8 20	□ ♃ ☿

JUPITER will be a Morning Star till May 17; then an Eveni Star till Dec. 4; after that a Morning Star to the End.

The 5 day, at 4 morn. Jupiter
The 9 day, at 5 morn. Mercury
The 12 day, at 6 morn. Mars
The 13 day, at 10 night, Venus
The 15 day, at 6 morn. Saturn
} is with the Moon.

M D	Sun rises	Sun sets	Moon South
1	7 26	4 34	3 m 30
2	7 24	4 36	4 16
F	7 23	4 37	5 2
4	7 21	4 39	5 51
5	7 19	4 41	6 43
6	7 17	4 43	7 38
7	7 15	4 45	8 36
8	7 14	4 46	9 36
9	7 12	4 48	10 37
F	7 10	4 50	11 39
11	7 8	4 52	0 a 37
12	7 6	4 54	1 33
13	7 4	4 56	2 26
14	7 3	4 57	3 18
15	7 1	4 59	4 8
16	6 59	5 1	4 57
F	6 57	5 3	5 46
18	6 55	5 5	6 35
19	6 53	5 7	7 24
20	6 51	5 9	8 12
21	6 49	5 11	8 59
22	6 47	5 13	9 46
23	6 45	5 15	10 32
F	6 43	5 17	11 17
25	6 41	5 19	morn.
26	6 39	5 21	0 1
27	6 38	5 22	0 45
28	6 36	5 24	1 30

Monthly Observations.

Rain fell in February 1791, was 0,873 Inches.

Rain or Snow (more or less) may be expected about the 5, 19, and 28 Days of this Month; the Day before or Day after.

LAST Quart. 4 day, at 4 morn.

to the 1st of January, 1792, is only 15 Inches and 2 Tenths; the Year before it was 16 Inches, and the Year before that it was 22 Inches; hence we may observe, that more Rain fell (taking the whole Year together) in 1789, than in the whole of the Year 1790, by 6 Inches; and in the whole of the Year 1790, than in the whole of the Year 1791, by eight-tenths of an Inch; therefore we have a Demonstration, that the Year 1791 had less Rain fell in Quantity than what fell in either of the two preceding Years, in and about the Neighbourhood of London.

NEW Moon 10 day, at 7 aftern.

FIRST Quart. 17 day, at 6 aftern.

FULL Moon 25 day, at 11 morn.

But it is well known, both by simple Observation, as well as by accurate Experiment, that different Places, in different Parts of the Kingdom, have

VENUS is an Evening Star till May 27; and after that a Morning Star for the rest of the Year

To welcome March; yea, rather more
Than Romulus esteemed heretofore,
I greet thee, for the Spring thou bringeſt; but he
Only for the warlike Name enjoy'd by thee.
Renowned for the Spring's a better Name,
Than other empty Martial Types of Fame.

M D	W D	Feaſts and Feſtivals.	☉ ☌	☽'s Signs	☽'s ☌	☽ riſes and ſets	Mutual Aſp. and Weather
1	F	*David*	11	loins	19	9 a 27	March be-
2	S	*Chad*	12	ſecret	20	10 36	gins with
3	✠	3 S. in Lent.	13	memb.	21	11 45	♂ ♄ ♀
4	M	Day br. 4 40	14	hips	22	morn.	ſnow or ſome
5	Tu	Tw. ends 7 28	15	and	23	0 52	△ ♃ ♂
6	W	Day 11 12 long.	16	thighs	24	1 58	cold rain.
7	Th	*Perpetua*	17	knees	25	2 58	Some froſty
8	F	Night 12 40 l.	18	hams	26	3 50	mornings
9	S	♃ riſes 0 21 m.	19	legs	27	4 35	follow.
10	✠	4. or Midl. Sa.	20	ancles	28	5 14	☌ ☉ ♅
11	M	♀ ſets 10 16 af.	21	feet	29	5 50	Windy with
12	Tu	*Gregory.* ☉ ecl.	22	toes	N	ſets	ſtorms of
13	W	[inviſible	23	head	1	7 a 36	rain or ſleet,
14	Th	Day br. 4 15	24	face	2	8 49	perhaps hail.
15	F	Tw. ends 7 49.	25	neck	3	9 59	
16	S	Day 11 52 long	26	throat	4	11 7	△ ♃ ♅
17	✠	5 S. in Lent.	27	arms	5	morn.	*St. Patrick.*
18	M	*Ed. K. W. S.*	28	and	6	0 14	More tem-
19	Tu	Night 11 56 l.	29	ſhould.	7	1 13	perate, ſea-
20	W	♃ riſes 11 39 af.	♈	breaſt	8	2 4	ſonable and
21	Th	*Benedict.*	1	ſtom.	9	2 48	fine.
22	F	*Cum. T. ends*	2	heart	10	3 25	
23	S	*Oxf. T. ends*	3	and	11	4 0	☌ ♂ ♅
24	✠	6. or Palm S.	4	back	12	4 30	Bluſtering
25	M	Ann. Lady Day.	5	bow.	13	4 58	winds, and
26	Tu	♀ ſets 10 57 af.	6	belly	14	5 21	cloudy air,
27	W	Day br. 3 47	7	reins	F	riſes	with rain
28	Th	*Maunday Thurſ.*	8	loins	16	7 a 24	or ſleet.
29	F	Good Friday.	9	ſecret	17	8 34	
30	S	Tw. ends 8 20	10	mem-	18	9 44	Stormy.
31	✠	Eaſter Day	11	bers	19	10 52	

The 4 day, at 2 aftern. Jupiter
The 12 day, at 3 morn. Mercury
The 13 day, at 6 morn. Mars
The 14 day, at 10 aftern. Saturn
The 15 day, at 5 aftern. Venus
The 31 day, at 8 aftern. Jupiter
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.
1	6 34	5 26	2 m15
2	6 32	5 28	3 0
F	6 30	5 30	3 49
4	6 28	5 32	4 40
5	6 26	5 34	5 33
6	6 24	5 36	6 29
7	6 22	5 38	7 27
8	6 20	5 40	8 25
9	6 18	5 42	9 23
F	6 16	5 44	10 22
11	6 14	5 46	11 19
12	6 12	5 48	0 a 15
13	6 10	5 50	1 8
14	6 8	5 52	2 1
15	6 6	5 54	2 52
16	6 4	5 56	3 43
F	6 2	5 58	4 33
18	6 0	6 0	5 23
19	5 58	6 2	6 12
20	5 56	6 4	7 0
21	5 54	6 6	7 47
22	5 52	6 8	8 34
23	5 50	6 10	9 20
F	5 48	6 12	10 5
25	5 46	6 14	10 49
26	5 44	6 16	11 33
27	5 42	6 18	morn.
28	5 40	6 20	0 19
29	5 38	6 22	1 6
30	5 36	6 24	1 54
F	5 34	6 26	2 44

Monthly Observations.

Rain fell in March, 1791, *was* 0,716 *Inches.*

Rain or Snow (more or less) may be expected about the 3, 12, and 24

LAST Quart. 5 day, at 3 aft.

Days of this Month; the Day before or Day after.

different Quantities of Rain fall, taking the whole Year together; but still there is an apparent Diminution of the

NEW Moon 12 day, at 6 morn.

Quantity of Rain fallen in the last mentioned three Years, as will appear by giving you the Quantity of Rain which fell in those Years; for Instance, at *Royston*, which for the Year 1789 was 23 Inches; and in the Year 1790

FIRST Quart. 19 day, at noon.

about 21 Inches; and in the Year 1791, it was not quite 20 Inches. Here we may observe, that though more Rain has fallen at *Royston* in the above mentioned Years than at London, yet there is certainly a Diminution; and that the Year 1791 must

FULL Moon 27 day, at 4 aft.

have been the dryest Year, taking the whole Year together, which by looking over the different Months

Happy the Man whose Soul exerts his Birth,
From Heaven extracted, scorns the Chains of Earth,
But upward mounts, spite of imprison'd Clay,
And views the quiet Realms of genuine Day;
Here Nature, 'midst the shining Orbs, is seen
Enrob'd in Glory, and exerts the Queen:

M D	W D	Fasts and Festivals.	☉ ♈	☽'s Signs	☽'s A	☽ rises and sets	Mutual Asp and Weather
1	M	Easter Monday	12	hips	20	11 a 59	Flying
2	Tu	Easter Tuesday	13	thighs	21	morn.	☌ ♄ ☿
3	W	*Rich. Bp. Chich.*	14	knees	22	1 0	clouds with
4	Th	*St. Ambrose.*	15	hams	23	1 55	wind and
5	F	*Old Lady-Day.*	16	legs	24	2 42	☽ ♃ ☍ rain.
6	S	Day 13 16 long	17	ancles	25	3 22	Seasonable
7	F	Low Sunday.	18	feet	26	3 56	spring wea-
8	M	Night 10 36 l.	19	toes	27	4 28	ther, which
9	Tu	♃ rises 10 21 a.	20	head	28	4 57	will contin-
10	W	*Ox. & C.T. beg.*	21	face	N	sets	nue some
11	Th	☿ sets 11 13 a.	22	neck	1	7 a 50	days.
12	F	Day br. 3 4	23	and	2	9 3	
13	S	Tw. ends 9 0	24	throat	3	10 8	Wholesome
14	P	2 S. aft. Easter.	25	arms	4	11 9	weather, and
15	M	Day 13 50 long	26	should.	5	morn.	pleasant
16	Tu	Night 10 6 long	27	breast	6	♌ 5	showers, if
17	W	*Easter Term beg.*	28	stom.	7	0 51	☌ ♄ ☌
18	Th	♃ rises 9 35 a.	29	heart	8	1 32	not some
19	F	*Alphege*	♉	and	9	2 8	claps of
20	S	☿ sets 11 16 a.	1	back	10	2 40	thunder.
21	P	3 S. aft. Easter.	2	bow.	11	3 8	☌ ☌ ☿
22	M	Day br. 2 36	3	belly	12	3 32	Wind and
23	Tu	St. George.	4	reins	13	3 55	rain may be
24	W	Tw. ends 9 30	5	loins	14	4 20	☌ ☉ ♄
25	Th	St. Mark. Prs. Mary born.			15	4 46	☌♄☿, ☌☉☿
26	F	Day 14 30 long	7	secret	F	rises	expected a-
27	S	Night 9 26 long	8	memb.	17	8 a 46	bout the ull
28	P	4 S. aft. Easter.	9	hips	18	9 55	moon.
29	M	♃ rises 8 58 a.	10	thighs	19	11 1	
30	Tu	☿ sets 11 20 a.	11	knees	20	11 58	

The 11 day, at 5 morn. Mars
The 11 day, at 5 morn. Venus
The 11 day, at 2 aftern. Saturn
The 11 day, at 12 aftern. Mercury
The 27 day, at 10 aftern. Jupiter
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.
1	5 32	6 28	3 m 37
2	5 30	6 30	4 32
3	5 28	6 32	5 29
4	5 26	6 34	6 26
5	5 24	6 36	7 23
6	5 22	6 38	8 19
F	5 20	6 40	9 15
8	5 18	6 42	10 9
9	5 17	6 43	11 2
10	5 15	6 45	11 54
11	5 13	6 47	0 a 47
12	5 11	6 49	1 39
13	5 9	6 51	2 30
F	5 7	6 53	3 21
15	5 5	6 55	4 12
16	5 3	6 57	5 1
17	5 1	6 59	5 49
18	4 59	7 1	6 36
19	4 57	7 3	7 22
20	4 56	7 4	8 7
F	4 54	7 6	8 51
22	4 52	7 8	9 35
23	4 50	7 10	10 20
24	4 48	7 12	11 7
25	4 46	7 14	11 55
26	4 45	7 15	morn.
27	4 43	7 17	0 45
F	4 41	7 19	1 38
29	4 39	7 21	2 33
30	4 37	7 23	3 30

Monthly Observations.

Rain fell in April, 1791, was 1,460 Inches.

LAST Quart. 3 day at 11 night.

Rain or Sleet (more or leſs) may be expected about the 2, 10, 17, 21 and 25 Days of this Month; the Day before or Day after.

NEW Moon 10 day, at 5 aftern.

it will be ſeen which were the very drieſt Month. We reckon 2 Inches of Rain a moderate Quantity for a Month; if it much exceeds, we may call it a wet Month (except what may fall in very haſty Showers ſometimes in the Summer Seaſon); and if it is much

FIRST Quart. 18 day, at 6 morn.

below that Quantity, it muſt be more or leſs a dry Month. We all know that the Summer of 1791 was a dry Summer. At the Top of the Right-hand Pages of each Month I have pointed out, by particular Obſervations of the Planets, certain Days of this

FULL Moon 26 day, at 5 morn.

Year 1793, when there is great probability of Rain or Snow, &c. (more or leſs in Quantity) within the Compaſs

MAY XXXI Days.

Here rules in State majestic, and from hence
Sheds on the Earth a distant Influence.
Let plodding Sots in trifling Works engage,
Recount the Actions on the World's great Stage,
For Ages past in dusty Volumes pry,
And trace Mankind back to their Infancy:

W D	Fasts and Festivals	☉ ♉	☽'s Signs	☽'s A	☽ rises and sets	Mutual Asp. and Weather
W	St. Ph. and Ja.	11	hams	21	morn.	Winds dis-
Th	Day br. 2 0	12	legs	22	0 49	persing the
F	*Inv. of Cross*	13	ancles	23	1 29	clouds, and
S	Tw. ends.	14	feet	24	2 5	inclined to
F	5 or Rog. Sun.	15	and	25	2 37	a frosty air.
M	*John E. A. P. L.*	16	toes	26	3 6	
Tu	Day 15 10 long	17	head	27	3 32	Seasonable
W	Night 8 48 long	18	face	28	4 0	and more
Th	Asc. Holy Thur.	19	neck	29	4 28	warm for
F	♃ rises 8 5 af.	20	throat	N	sets	several days.
S	♀ sets 10 19 af.	21	arms	1	9 a 6	
F	S. aft. Ascen.	22	should.	2	9 59	*Old M.* [illegible]
M	*Easter Term ends*	23	breast.	3	10 49	☌ ☉ ♂
Tu	Day br. 1 12	24	and	4	11 34	Some thun-
W	Tw. ends 10 55	25	stom.	5	morn.	der showers
Th	*Oxford T. ends*	26	heart	6	0 12	are now
F	Day 15 40 long	27	back	7	0 44	☍ ☉ ♃
S	Night 8 18 long	28	bow.	8	1 12	☍ ♃ ♂
F	Whit. S. Q. Ch. b.	29	and	9	1 37	*Dunstan.*
M	Whit Mond.	11	belly	10	2 1	expected.
Tu	Whit. Tues.	1	reins	11	2 25	Brisk winds,
W	Em. W. Prs. E. b.	2	loins	12	2 49	*Ca. T. div. n.*
Th	♃ rises 7 8 aft.	3	secret	13	3 14	with rain,
F	♀ sets 8 34 aft.	4	memb.	14	3 44	☌ ♄ ☿
S	Day 16 0 long	5	hips	F	rises	about the
F	Trin. Sund.	6	thighs	16	8 a 48	*Aug. Abp.*
M	*Ven. Bede.*	6	knees	17	9 51	☌ ☉ ♀
Tu	Night 7 52 long	7	and	18	10 45	full moon.
W	K. Ch. II. rest.	8	hams	19	11 31	*Oxf. T. beg.*
Th	*Corpus Christi.*	9	legs	20	morn.	☌ ♂ ♀ fruit-
F	*Trin. Term beg.*	10	ancles	21	0 9	ful showers.

The 8 day, at 4 aftern. Mercury
The 9 day, at 4 morn. Saturn
The 10 day, at 3 morn. Mars
The 11 day, at 12 night, Venus
The 25 day, at morn. Jupiter
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.
1	4 36	7 24	4 m 27
2	4 34	7 26	5 25
3	4 32	7 28	6 21
4	4 31	7 29	7 15
F	4 29	7 31	8 8
6	4 27	7 33	9 0
7	4 25	7 35	9 51
8	4 24	7 36	10 42
9	4 22	7 38	11 32
10	4 21	7 39	0 a 23
11	4 19	7 41	1 15
12	4 18	7 42	2 6
13	4 16	7 44	2 56
14	4 14	7 46	3 45
15	4 13	7 47	4 33
16	4 12	7 48	5 19
17	4 10	7 50	6 4
18	4 9	7 51	6 48
F	4 7	7 53	7 31
20	4 6	7 54	8 15
21	4 5	7 55	9 0
22	4 3	7 57	9 47
23	4 2	7 58	10 36
24	4 1	7 59	11 28
25	4 0	8 0	morn.
F	3 58	8 2	0 23
27	3 57	8 3	1 20
28	3 56	8 4	2 19
29	3 55	8 5	3 18
30	3 54	8 6	4 16
31	3 53	8 7	5 12

Monthly Observations.

Rain fell in May, 1791, was 0,794 Inches.

LAST Quart. 3 day, at 4 morn.

Rain (more or less) may be expected about the 10, 15, 24, and 30 Days of this Month; the Day before or Day after.

pass of the *Triduum* of three Days; which, if the greater Half only are

NEW Moon 10 day, at 4 morn.

found right, in any one Place or Part of the Kingdom, it must then be confessed, that the Positions of the Planets, and their Influx on the Atmosphere, are certainly concerned (whatever some People may say) in the Alterations of the Weather. The Weather mentioned

FIRST Quart. 18 day, at 1 morn.

in the Columns in every Month, on the Left Hand Side, together with the particular Days mentioned on the Right Hand Side of each of the Months, make up what we call the whole of our general Judgment of the Weather, serving

FULL Moon 25 day, at 4 aft.

for the whole Kingdom; and within 3 or 4 Days, sooner or later, and not always exactly opposite to the Day or Days, where the Words may stand,

A nobler Scene invites my Thoughts to roam,
Not what is paſt, but what's to come;
As far as Poets yield to the Prophet's Name,
Her Place about the Arts, Aſtronomy doth claim.
Aſtronomy! O Science all divine!
What Praiſes can be ſpoke that are not thine?

M D	W D	Faſts and Feſtivals.	☉ ☊	☽'s Signs	☽'s A	☽ riſes and ſets	Mutual Aſp. and Weather
1	S	*Nicomede.*	11	feet	22	0 m 43	A fine grow-
2	F	1 S. aft. Trin.	12	toes	23	1 10	ing time is
3	M	No real night	13	head	24	1 36	expected
4	Tu	K. Geo. III. b.	14	face	25	2 3	now about.
5	W	Pr. Ern. Aug. b.	15	neck	26	2 29	*Boniface.*
6	Th	but all day or	16	throat	27	3 0	
7	F	twilight.	17	arms	28	3 33	Pleaſant
8	S		18	and	N	ſets	☌ ☿ ☿
9	F	2 S. aft. Trin.	19	ſhould.	1	8 a 40	days and
10	M	till the 23d of	20	breaſt	2	9 27	moſtly fair;
11	Tu	St. Barnabas	21	ſtom.	3	10 7	ſhowers in
12	W	July.	22	heart	4	10 42	the evening.
13	Th		23	and	5	11 13	
14	F	♃ ſets 2 23 m.	24	back	6	11 38	
15	S	☿ riſes 2 32 m.	25	bow.	7	morn.	Warm wea-
16	F	3 S. aft. Trin.	26	belly	8	0 3	☌ ☍ ☿
17	M	*St. Alban.*	27	reins	9	0 24	ther, with
18	Tu	Day 16 34 long	28	loins	10	0 47	ſome claps
19	W	*Trin. Term ends.*	28	ſecret	11	1 11	of thunder.
20	Th	*Tran. Ed. K. W. S*	29	mem-	12	1 37	
21	F	Longeſt Day.	♋	bers	13	2 8	Gentle
22	S	Night 7 26 lo.	1	hips	14	2 45	winds and
23	F	4 S. aft. Trin.	2	thighs	F	riſes	more cool.
24	M	Nativ. J. Bapt.		*Midſummer.*	16	8 a 32	☌ ☉ ☿
25	Tu	♃ ſets 1 37 m.	4	hams	17	9 22	Some ſhow-
26	W	☿ riſes 1 58 m.	5	legs	18	10 3	ers now a-
27	Th	Day 16 32 long.	6	ancles	19	10 39	bout.
28	F	Night 7 24 long	7	feet	20	11 9	✱ ♄ ☿
29	S	St. Peter	8	toes	21	11 37	Flying
30	F	5 S. aft. Trin.	9	head	22	morn.	clouds.

The 5 day at 5 aftern. Saturn
The 6 day at 10 aftern. Mercury
The 7 day at 9 morn. Venus
The 7 day at 12 night Mars
The 21 day at 5 morn. Jupiter
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.
1	3 52	8 8	6 m 6
F	3 51	8 9	6 56
3	3 51	8 9	7 46
4	3 50	8 10	8 36
5	3 49	8 11	9 25
6	3 48	8 12	10 15
7	3 48	8 12	11 5
8	3 47	8 13	11 55
F	3 46	8 14	o a 46
10	3 46	8 14	1 35
11	3 45	8 15	2 23
12	3 45	8 15	3 10
13	3 44	8 16	3 56
14	3 44	8 16	4 40
15	3 44	8 16	5 23
F	3 43	8 17	6 5
17	3 43	8 17	6 48
18	3 43	8 17	7 33
19	3 43	8 17	8 20
20	3 43	8 17	9 10
21	3 43	8 17	10 3
22	3 43	8 17	11 0
F	3 43	8 17	11 59
24	3 43	8 17	morn
25	3 43	8 17	1 0
26	3 44	8 16	2 0
27	3 44	8 16	2 58
28	3 44	8 16	3 54
29	3 45	8 15	4 47
F	3 45	8 15	5 39

Monthly Obſervations.

LAST Quart. 1 day, at 10 morn.

Rain fell in June, 1791, *was* 0,332 *Inches.*

Rain (more or leſs) may be expected about the 8, 17, 24 and 30 Days of this Month; the Day before or the Day after.

NEW Moon 8 day, at 3 aft.

we expect the Change to happen. This I have again thought proper to mention for a Guide to thoſe who notice theſe Things, as the Printer ſometimes miſplaces the Words in ſetting the Preſs.

FIRST Quart. 16 day, at 6 aft.

Aſtrological Obſervations on Mundane Affairs.

AMONG the many Configurations of the Planets for two or three Months paſt, that of the Conjunction of *Saturn* and *Mars* in *Taurus*, a cold, dry, nocturnal Sign, is moſt worthy of Obſervation, as it denotes Quarrels, Murders, and Deceits among Men; the Highways are infeſted with Vil-

FULL Moon 23 day, at 12 night.

LAST Quart. 30 Day, at 3 aft.

which an open Way to Man is given,
search secret Depths, and read the Will of Heaven;
Souls, while thus employ'd, are like the Space,
which we do our Contemplation place;
Storms so high to reach your Regions swell,
we, nor Sky, the Fury fear, which each foretel.

Fasts and Festivals	☉ ♒	☽'s Signs	☽'s A	☽ rises and sets	Mutual Asp. and Weather
	10	face	23	0 m 3	Now make
Visitat. V. M.	11	neck	24	0 29	*Cam. Com.*
Dog Days beg.	12	throat	25	0 58	your hay
Trans. St. Mart.	13	arms	26	1 29	this pleasant
Camb. T. ends.	14	and	27	2 4	*Old Mids.*
♃ sets 0 49 m.	15	should.	28	2 45	weather, it
6 S. aft. Trin.	16	breast	29	3 29	*Th. à Becket.*
Oxford Act.	17	stom.	N	sets	may hold
♀ rises 1 27 m	18	heart	1	8 a 38	several days
Day 16 16 long	18	and	2	9 9	together.
Night 7 46 lo.	19	back	3	9 36	* ♀ ☿
♃ sets 0 23 m.	20	bow.	4	10 2	Some flying
Oxford T. ends.	21	belly	5	10 25	showers soon
7 S. aft. Trin	22	reins	6	10 47	after the
Swithin.	23	and	7	11 10	□ ♄ ☿
♀ rises 1 14 m.	24	loins	8	11 35	new moon.
Day 16 2 lo.	25	secret	9	morn.	Serene, with
Night 8 0 lo.	26	memb.	10	0 3	sultry air,
♃ sets 11 53 a.	27	hips	11	0 37	and some
Margaret.	28	thighs	12	1 17	□ ♃ ☿
8 S. aft. Trin.	29	knees	13	2 5	rain at in-
Magdalen.	♌	hams	14	3 5	tervals.
♀ rises 1 3 m.	1	legs	F	rises	Hot and dry
Day br. 0 30	2	ancles	16	8 a 32	weather,
St. James.	3	feet	17	9 7	with claps
St. Anne.	4	toes	18	9 36	of thunder
Tw. ends 11 0	5	head	19	10 4	* ♄ ♂
9 S. aft. Trin.	6	face	20	10 32	near the
Day 15 30 long	7	neck	21	10 59	end.
Night 8 34 lo.	8	and	22	11 31	
♃ sets 11 3 aft.	9	throat	23	morn.	

The 3 day, at 5 morn. Saturn
The 4 day, at 4 aftern. Venus
The 6 day, at 9 aftern. Mars
The 9 day, at 2 aftern. Mercury
The 18 day, at 3 aftern. Jupiter
The 30 day, at 1 aftern. Saturn
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.
1	3 46	8 14	6 m 28
2	3 46	8 14	7 17
3	3 47	8 13	8 7
4	3 47	8 13	8 56
5	3 48	8 12	9 45
6	3 49	8 11	10 35
F	3 49	8 11	11 25
8	3 50	8 10	0 a 13
9	3 51	8 9	1 0
10	3 52	8 8	1 46
11	3 53	8 7	2 31
12	3 54	8 6	3 14
13	3 55	8 5	3 57
F	3 56	8 4	4 40
15	3 57	8 3	5 23
16	3 58	8 2	6 8
17	3 59	8 1	6 55
18	4 0	8 0	7 46
19	4 2	7 58	8 40
20	4 3	7 57	9 37
F	4 4	7 56	10 37
22	4 5	7 55	11 38
23	4 7	7 53	morn.
24	4 8	7 52	0 39
25	4 10	7 50	1 38
26	4 11	7 49	2 35
27	4 12	7 48	3 29
F	4 14	7 46	4 21
29	4 15	7 45	5 11
30	4 17	7 43	6 1
31	4 18	7 42	6 51

Monthly Obſervations.

Rain fell in July, 1792, was 2,194 Inches.

Rain (more or leſs) may be expected about the 2, 8, 14, 23, and 30 Days of this Month; the Day before or Day after,

---

lains and Thieves; whence, during the

NEW Moon 8 day, at 5 morn.

Spring Quarter, we may expect to hear of Murders and Bloodſhed; and though the World is always full of Fraud and Villainy, yet in thoſe Months you will ſee it more public and notorious. The learned *Eſcuidas* ſays, Conjunctio media Saturni, &c. Martis ſignificat

FIRST Quart. 16 day, at 5 morn.

eventus, &c. res maximas. *Bonatus* alſo ſays, ſuch a Poſition ſignifies many Evils and remarkable Tranſactions. It ſignifies an Interruption in public Affairs, and Obſtruction to the advantageous Deſigns under Con-

FULL Moon 23 day, at 7 morn.

ſideration for the Peace of Mankind; ſtirring up Procedings and Ferments and Heats in the Councils and Courts of Princes, tending to Confuſion, and to

LAST Quart. 29 day, at 11 night.

But ſome will urge to tell them, if we can,
How ſenſeleſs Stars can act on thinking Man.
Were not the Soul cloſe with the Body join'd
To this her Priſon, in ſtrong Chains confin'd;
Did ſhe not hence her Notices receive,
Become ſuſceptible of Joy and Grief:

M D	W D	Faſts and Feſtivals.	☉ ☊	D's Signs	D's A	D riſes and ſets	Mutual Aſp. and Weather.
1	Th	Lammas Day	10	arms	24	0 m 5	Good har-
2	F	☿ riſes 0 56 mo.	10	ſhould.	25	0 44	veſt weather
3	S	Day br. 1 36	11	breaſt	26	1 26	begins the
4	☉	10 S. aft. Trin.	12	and	27	2 16	month.
5	M	Tw. en. 10 16	13	ſtom.	28	3 9	Fair and ſea-
6	Tu	*Tranſfiguration.*	14	heart	N	ſets	ſonable.
7	W	Prs. Amelia b.	15	back	1	7 a 34	*Na. of Jeſus*
8	Th	Day 14 58 lo.	16	bow.	2	8 7	△♃♂,□☉♄
9	F	Night 9 6 lo.	17	and	3	8 30	Now chan-
10	S	*St. Lawrence.*	18	belly	4	8 54	ges to a clou-
11	☉	11 S aft Trin.	Prs. Bruns. b.		5	9 15	*Dog Days e.*
12	M	Pr. of Wales b.	20	loins	6	9 40	*Old Lammas*
13	Tu	♃ ſets 10 18 af.	21	ſecret	7	10 6	△♄☿ dy
14	W	☿ riſes 0 54 m.	22	memb.	8	10 36	air with rain
15	Th	*Aſſumption.*	23	hips	9	11 12	if not thun-
16	F	D. of York b.	24	and	10	11 55	□☉♃ der.
17	S	Day br. 2 22	25	thighs	11	morn.	Storms in
18	☉	12 S. aft. Trin.	26	knees	12	0 49	divers places
19	M	Tw ends 9 32	27	hams	13	1 52	Ruffling
20	Tu	Day 14 14 long	28	legs	14	3 4	winds, but
21	W	D. of Clarence b.	29	ancles	F	riſes	△♄☿ ge-
22	Th	[☽ ecl. invif.	♍	feet	16	7 a 38	✱☿☿ ne-
23	F	Night 9 56 lo.	♈	toes	17	8 8	✱♄☿ rally
24	S	St. Bartholom.	2	head	18	8 37	good harveſt
25	☉	13 S. aft. Trin.	3	face	19	9 5	weather;
26	M	♃ ſets 9 33 aft.	4	neck	20	9 36	rain about
27	Tu	☿ riſes 1 6 mo.	5	throat	21	10 10	the full moon
28	W	*St. Auguſtine.*	5	arms	22	10 48	or ſoon after.
29	Th	*Behead. J. Bap.*	6	ſhould.	23	11 30	☌☉☿
30	F	Day br. 3 2	7	breaſt	24	morn.	△♃☿
31	S	Tw. ends 8 36	8	and	25	0 16	Showery.

The 2 day, at 4 aftern. Venus
The 4 day, at 2 aftern. Mars.
The 9 day, at 4 morn. Mercury
The 14 day, at 11 aftern. Jupiter
The 24 day, at 6 aftern. Saturn
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.
1	4 20	7 40	7 m 41
2	4 22	7 38	8 31
3	4 23	7 37	9 20
F	4 25	7 35	10 9
5	4 26	7 34	10 56
6	4 28	7 32	11 43
7	4 30	7 30	0 a 28
8	4 31	7 29	1 13
9	4 33	7 27	1 56
10	4 35	7 25	2 39
F	4 37	7 23	3 21
12	4 38	7 22	4 5
13	4 40	7 20	4 51
14	4 42	7 18	5 39
15	4 44	7 16	6 30
16	4 45	7 15	7 24
17	4 47	7 13	8 21
F	4 49	7 11	9 21
19	4 51	7 9	10 22
20	4 53	7 7	11 22
21	4 54	7 6	morn.
22	4 56	7 4	0 21
23	4 58	7 2	1 18
24	5 0	7 0	2 13
F	5 2	6 58	3 6
26	5 4	6 56	3 58
27	5 6	6 54	4 50
28	5 8	6 52	5 41
29	5 9	6 51	6 32
30	5 11	6 49	7 22
31	5 13	6 47	8 11

Monthly Observations.

Rain fell in August, 1792, was 0,824 Inches.

Rain (more or less) may be expected about the 7, 12, 15, 23 and 30 Days of this Month; the Day before or Day after.

NEW Moon 6 day, at 8 aftern.

FIRST Quart. 14 day, at 9 night

FULL Moon 21 day at 3 aftern.

LAST Quart. 28 day, at 9 morn.

hatch and contrive Plots against the established Governments in certain Kingdoms of Europe. How full of Business the Statesmen of Europe are! How they meet and consult! Aye, and the Clergy too! Perhaps some great Convocation about this Time in France, and I would speak of other Places too: These Things I desire may be observed, for the Fullness of Time is almost at Hand. Ignorance alone is the Parent of Bigotry, Superstition, and Despotism! If the Inhabitants of every Country were to weigh the Advantages got by any War, against the certain Evils which attend it, they would sedulously avoid Quarrels, which for the most Part end only in an Accumulation of Debt and Taxes.] — But the Time is come, when it does not require the Gift of Prophecy

Did she not wholly to the Body owe
Whate'er she feels, whatever she doth know,
We then might wonder that the Stars make Fate,
That Matter can on Spirits operate,
When gathering Clouds contract the Hemisphere,
And Damps descending, clog the lazy Fear.

M D	W D	Fasts and Festivals.	☉ ♍	☽'s Signs	D's A	☽ rises and sets	Mutual Aspects, Weather
1	F	14 S. aft. Trin.	9	ſtom.	26	1 m 9	*Giles.*
2	M	London burnt.	10	heart	27	2 5	This month
3	Tu	Day 13 22 lo.	11	back	28	3 4	begins ſea-
4	W	Night 10 42 lo.	12	bow.	29	4 6	ſonable and
5	Th	☉ eclipſ. viſ.	13	and	N	ſets	fine, for the
6	F	♃ ſets 9 0 aft.	14	belly	1	7 a 6	latter part of
7	S	*Enurchus.*	15	reins	2	7 29	the harveſt.
8	F	15 S. aft. Trin.	16	loins	3	7 52	*Nat. V. M.*
9	M	☿ riſes 1 31 m.	17	ſecret	4	8 18	
10	Tu	Day br. 3 31	18	mem-	5	8 47	Overcaſt for
11	W	Tw. ends 8 25	19	bers	6	9 18	wind and
12	Th	Day 12 48 lo.	20	hips	7	9 58	rain, per-
13	F	Night 11 16 lo.	21	thighs	8	10 47	□ ♄ ♂
14	S	♃ ſets 8 30 aft.	22	knees	9	11 43	haps thun-
15	F	16 S. aft. Trin.	23	hams	10	morn.	der.
16	M	☿ riſes 1 48 m.	24	legs	11	0 51	
17	Tu	*Lambert.*	25	ancles	12	2 5	Roughwinds
18	W	Ember Week.	26	feet	13	3 25	□ ♄ ☿
19	Th	Day br. 3 50	27	toes	F	riſes	and cooling
20	F	Tw. ends 8 6	28	head	15	6 a 42	ſhowers of
21	S	St. Matthew.	29	face	16	7 12	rain.
22	F	17 S. aft. T. K. G. III. cr.			17	7 43	△ ♄ ☿
23	M	Day 12 4 lo.	1	throat	18	8 16	
24	Tu	Night 12 0 lo.	2	arms	19	8 52	Some rain
25	W	*Holy Croſs.*	3	and	20	9 34	♂ ☌ ☿
26	Th	*St. Cyprian.*	4	ſhould.	21	10 21	about the
27	F	♃ ſets 7 49 aft.	5	breaſt	22	11 12	moon's laſt
28	S	☿ riſes 2 22 m.	6	ſtom.	23	morn.	quarter.
29	F	18 S. af. T. St. Mi.	Frs. R. h.		24	0 7	More fine.
30	M	*St. Jereme.*	8	heart	25	1 6	□ ♃ ☿

The 1 day, at 7 morn. Venus
The 2 day, at 2 aftern. Mars
The 4 day, at 6 aftern. Mercury
The 11 day, at noon, Jupiter
The 21 day, at 4 morn. Saturn
} is with the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
F	5 15	6 45	8m 59	*Rain fell in September, 1791, was 0,482 Inches.*
2	5 17	6 43	9 47	Rain (more or leſs) may be expected
3	5 29	6 41	10 32	about the 5, 15, 19, and 25 Days of
4	5 21	6 39	11 17	this Month; the Day before or Day
5	5 23	6 37	0 a 1	after.
6	5 25	6 35	0 44	NEW Moon 5 day, at noon,
7	5 27	6 33	1 28	
F	5 29	6 31	2 11	
9	5 31	6 29	2 56	
10	5 32	6 28	3 43	
11	5 34	6 26	4 32	
12	5 36	6 24	5 24	
13	5 38	6 22	6 18	FIRST Quart. 13 day, at 8 morn.
14	5 40	6 20	7 16	
F	5 42	6 18	8 15	
16	5 44	6 16	9 13	
17	5 46	6 14	10 11	
18	5 48	6 12	11 9	
19	5 50	6 10	morn.	
20	5 52	6 8	0 5	
21	5 54	6 6	1 0	
F	5 56	6 4	1 54	
23	5 58	6 2	2 48	
24	6 0	6 0	3 41	
25	6 2	5 58	4 33	
26	6 4	5 56	5 25	LAST Quart. 26 day, at 12 night.
27	6 6	5 54	6 15	
28	6 8	5 52	7 4	
F	6 10	5 50	7 52	
30	6 12	5 48	8 39	

to foreſee, that Deſpotiſm, Bigotry, and the Inquiſition (which, under the Pretence of ſaving Men's Souls, actually deſtroy their Bodies) muſt be, ere long, annihilated both in *Spain*, and in *Portugal*. The Prevalence of Reaſon, of Truth, and of Knowledge in *France*, muſt illuminate all around, and will certainly produce civil and religious Liberty in all thoſe Countries of *Europe* where they are at preſent leaſt underſtood. The heavenly Bodies I ſay, incline or manifeſt the Temperature of Man to be vicious or virtuous, but in no wiſe compel the Inclination to be ſuch; therefore I deſire to be underſtood, that when I am ſpeaking on mundane Affairs, I am only ſhewing how

FULL Moon 19 day, at 11 night.

Observe but then the Motions of the Eye,
Where the Soul's Movements you may best descry;
Through this her Windows you may plainly view
The Goddess's Flag beneath the elemental Dew;
But when the weary Mists at length are fled,
And now no more th' Etherial Plains are spread,

M D	W D	Fasts and Festivals.	☉ ♎	☽'s Signs	D's A	☽ rises and sets	Mutual Asp. and Weather
1	Tu	*Remigius*	9	back	26	2 m 6	✱ ♅ ♆
2	W	Day br. 4 20	10	bow	27	3 10	Somewhat
3	Th	Tw. ends 7 40	11	belly	28	4 12	windy now
4	F	Day 11 18 lo.	12	reins	29	5 15	about.
5	S	Night 12 44 lo.	13	and	N	sets	Temperate
6	F	19 S. aft. Trin.	14	loins	1	6 a 31	*Faith.*
7	M	♅ sets 7 16 af.	15	secret	2	6 58	and good
8	Tu	☿ rises 2 51 m.	16	memb.	3	7 29	□ ♅ ♂
9	W	*St. Denys.*	17	hips	4	8 7	weather for
10	Th	*Ox. & C. T. beg.*		*O. Mich. D.*	5	8 52	the farmers
11	F	Day br. 4 39	19	knees	6	9 43	wheat seed
12	S	Tw. ends 7 17	20	hams	7	10 44	time.
13	F	20 S. aft. Trin.		*Tr. K. Ed. C.*	8	11 52	△ ♄ ☿, ☌ ☉ ♆
14	M	Day 10 40 lo.	22	legs	9	morn.	
15	Tu	Night 13 24 lo.	23	ancles	10	1 9	
16	W	♅ sets 6 47 af.	24	feet	11	☽ 28	Wind and
17	Th	*Etheldred*	25	toes	12	3 47	rain now
18	F	St. Luke	26	head	13	5 9	about.
19	S	Day br. 4 54	27	face	F	rises	
20	F	21 S. aft. Trin.	28	neck	15	6 a 16	Frosty
21	M	Tw. ends 7 0	29	throat	16	6 52	mornings,
22	Tu	Day 10 10 lo.	♏	arms	17	7 33	with rough
23	W	Night 13 50 lo.	1	should.	18	8 17	winds, and
24	Th	♅ sets 6 22 af.	2	breast.	19	9 7	generally
25	F	K. Geo. 1. Ac.	3	stom.	20	10 3	*Crispin.*
26	S	K. Geo. 3. Pr.	4	heart	21	11 0	☌ ♄ ♆, ✱ ♂ ♆
27	F	22 S. aft. Trin.	5	and	22	11 59	cold and dry
28	M	St. Sim. & Jude	6	back	23	morn.	△ ♄ ♂
29	Tu	☿ rises 3 54 mo.	7	bow.	24	1 2	even to the
30	W	Day br. 5 13	8	belly	25	2 5	✱ ♅ ☿
31	Th	Tw. ends 6 53	9	reins	26	3 9	end.

The 1 day, at 6 morning, Mars
The 1 day, at 9 morning, Venus
The 4 day, at 1 afternoon, Mercury
The 9 day, at 1 morning, Jupiter
The 18 day, at noon, Saturn
The 30 day, at 1 morning, Mars
The 31 day, at 11 night, Venus
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.
1	6 14	5 46	9 m 24
2	6 16	5 44	10 9
3	6 18	5 42	10 51
4	6 20	5 40	11 35
5	6 22	5 38	0 a 19
F	6 24	5 36	1 4
7	6 26	5 34	1 50
8	6 28	5 32	2 39
9	6 29	5 31	3 30
10	6 31	5 29	4 23
11	6 33	5 27	5 17
12	6 35	5 25	6 13
F	6 37	5 23	7 10
14	6 39	5 21	8 7
15	6 41	5 19	9 2
16	6 43	5 17	9 57
17	6 45	5 15	10 52
18	6 47	5 13	11 46
19	6 49	5 11	morn.
F	6 51	5 9	0 40
21	6 53	5 7	1 33
22	6 55	5 5	2 27
23	6 56	5 4	3 20
24	6 58	5 2	4 12
25	7 0	5 0	5 3
26	7 2	4 58	5 53
F	7 4	4 56	6 40
28	7 6	4 54	7 25
29	7 8	4 52	8 9
30	7 9	4 51	8 53
31	7 11	4 49	9 36

Monthly Obſervations.

Rain fell in October, 1791, *was* 2,02 *Inches.*

Rain (more or leſs) may be expected about the 5, 13, 19, 27 and 29 Days

NEW Moon 5 day, at 5 morn.

of this Month; the Day before or Day after.

the Stars incline, not conſtrain or compel Men to bad Actions. The Configurations of the Planets, Eclipſes,

FIRST Quart. 12 day, at 5 aftern

&c. are likewiſe Signs and Portends of future Events that reſpect the Affairs of the World, But to return, England, our flouriſhing Iſland (notwithſtanding all deſperate Attempts made theſe late Years) continues ſtill

FULL Moon 19 day, at 9 morn.

in much Splendor and moſt excellent Order; and every Man doth or may enjoy his Peace without the leaſt Fear or Moleſtation, which is ſo great a Happineſs, that Thouſands in the World would think themſelves almoſt in Hea-

LAST Quart. 26 day, at 6 aftern

ven to enjoy the ſame; and we cannot ſufficiently prize ſo great a Bleſſing, yet the Spirits of ſome Perſons amongſt

NOVEMBER XXX Days.

When lighten'd Air tranſmits the Sun's vivific Ray,
And every Heat welcomes returning Day;
The vigorous Spirits to the Eye reſort,
And vegete Joys around the Temples ſport.
But granting that, we ſtill muſt own the Mind,
Be free, unſubjugated, unconfin'd.

W D	Faſts and Feſtivals.	☉ in ♏ Signs	☽'s	☽ A	☽ riſes and ſets	Mutual Aſp. and Weather.
F	All Saints.	10	and	27	4 m 13	Cold winds
S	Pr. Edw. b.	11	loins	28	5 18	*All Souls.*
☉	23 S. a. T. Prs. Go. b.		ſecret	N	ſets	☌ ☉ ♄
M	K. Wm. landed	13	memb.	1	5 a 32	and rain may
Tu	Powder Plot.	14	hips	2	6 8	be now ex-
W	*Mich. T. begins.*	15	thighs	3	6 50	*Leonard.*
Th	Day 9 12 lo.	16	knees	4	7 41	pected.
F	Prs. A. Soph. b.	17	and	5	8 40	Froſts with
S	Ld. Mayor's D.	18	hams	6	9 45	ſome ſleet.
☉	24 S. aft. Trin.	19	legs	7	10 58	
M	*St. Martin.*	20	ancles	8	morn.	Cold cloudy
Tu	*Cam. T. div. m*	21	feet	9	0 13	☌ ♃ ☿
W	*Britius.*	22	toes	10	1 29	weather,
Th	Night 15 10 lo.	23	head	11	2 48	with ſome
F	*Machutus*	24	face	12	4 5	ſhowers.
S	♃ ſets 5 7 aft.	25	neck	13	5 23	
☉	25 S. aft. Trin.	26	throat	F	riſes	*Hugh, Bp. L.*
M	☿ riſes 4 52 m.	27	arms	15	5 a 24	Bluſtering
Tu	Day br. 5 40	28	ſhould.	16	6 6	winds, and
W	*Edmund.*	29	breaſt	17	6 54	variable
Th	Tw. ends 6 17	♐	and	18	7 46	weather, but
F	*Cecilia.*	1	ſtom.	19	8 44	*Old Mart.*
S	*St. Clement.*	2	heart	20	9 44	not much
☉	26 S. aft. Trin.	3	back	21	10 44	rain.
M	D. of Glocest. b.	4	bow.	22	11 46	*Catherine.*
Tu	Day 8. 16 long.	5	and	23	morn.	
W	Night 15 46 lo.	6	belly	24	0 50	Snow or cold
Th	*Mich T. ends.*	7	reins	25	1 54	☽ ♄ ☿ rain
F	♃ ſets 4 22 af.	8	loins	26	2 58	now about.
S	St. Andrew.	9	ſecret	27	4 4	Cloudy.

The 4 day, at 8 aftern. Mercury
The 5 day, at 5 aftern. Jupiter
The 14 day, at 5 aftern. Saturn
The 27 day, at 8 aftern. Mars
} is with the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
				Rain fell in November, 1791, was 2,527 Inches.
1	7 13	4 47	10 m 19	NEW Moon 3 day, at 8 aftern.
2	7 15	4 45	11 3	Rain or Sleet (more or less) may be expected about the 4, 13, 17, 23, and 28 Days of this Month; the Day before or Day after.
F	7 17	4 43	11 49	
4	7 18	4 42	0 a 37	
5	7 20	4 40	1 28	
6	7 22	4 38	2 21	
7	7 24	4 36	3 16	
8	7 25	4 35	4 12	amongst us are still disquieted, and they are too subject to repine; but take heed and beware, O fond Man!
9	7 27	4 33	5 8	
F	7 29	4 31	6 4	FIRST Quart. 11 day, at 1 morn.
11	7 30	4 30	6 58	
12	7 32	4 28	7 51	employ thy Wits better, lest you split your Ship upon the Rock of Confusion.
13	7 33	4 27	8 43	
14	7 35	4 25	9 35	The French seem not to be altogether fortunate near these Times, and
15	7 37	4 23	10 27	
16	7 38	4 22	11 19	their Affairs seem to meet with some
F	7 40	4 20	morn.	FULL Moon 17 day, at 9 night.
18	7 41	4 19	0 12	
19	7 42	4 18	1 6	Interruption. Divers Cities in Spain seem to be in an ill Condition; and
20	7 44	4 16	1 59	
21	7 45	4 15	2 51	I think that something in that Kingdom is preparing, and not far off
22	7 47	4 13	3 41	
23	7 48	4 12	4 30	neither; when it comes it will be like the overflowing of the Nile, or the
F	7 49	4 11	5 16	Deluge of Noah.
25	7 51	4 9	6 0	LAST Quart. 25 day, at 3 aftern.
26	7 52	4 8	6 43	
27	7 53	4 7	7 26	Sweden suffers some unforeseen Mischiefs, old Matters are trumped up
28	7 54	4 6	8 9	again to support some unjust Actions.
29	7 55	4 5	8 52	The Snake in the Grass is not yet discovered.
30	7 56	4 4	9 37	

Th' Empire o'er himſelf to Man is given,
Outward Events to th' Influence of Heaven;
Hence deep Deſigns we often fruſtrate ſee,
Nor wiſeſt Plots can baffle Fate's Decree;
Decrees of Fate writ in the Stars we know
Not to elude, but break the coming Blow.

W D	Faſts and Feſtivals.	☉ ♐	☽'s Signs	☽'s A	☽ riſes and ſets	Mutual Aſp. and Weather
F	Advent Sund.	10	m m-	28	5 m 11	Wholeſome
M	☿ riſes 5 32 m.	11	bers	29	6 22	winds and
Tu	Day br. 5 55	12	hips	N	ſets	ſeaſonable
W	Tw. ends 6 2	13	thighs	1	5 a 25	☌ ☉ ♃
Th	Day 7 58 long	14	knees	2	6 23	froſts
F	*Nicholas.*	15	hams	3	7 28	
S	Night 16 6 long	16	legs	4	8 39	Temperate
P	2 S. in Advent.	17	ancles	5	9 55	*Conception.*
M	♃ riſes 4 46 m.	18	feet	6	11 12	and fine for
Tu	☿ riſes 6 43 a.	19	toes	7	morn.	the ſeaſon.
W	Day br. 5 58	20	head	8	0 28	
Th	Tw. ends 6 1	21	face	9	1 42	Somewhat
F	*Lucy.*	22	neck	10	2 56	windy, with
S	Day 7 46 long	23	throat	11	4 10	ſleet or rain.
P	3 S. in Advent.	24	arms	12	5 23	
M	*Camb. T. ends.*	25	and	13	*O. Sap.*	☌ ☉ ☿
Tu	*Oxford T. ends.*	26	ſhould.	F	riſes	
W	Ember Week.	27	breaſt	15	5 a 19	Cloudy and
Th	Night 16 16 lo.	28	ſtom.	16	6 19	cold wea-
F	♃ riſes 7 7 m.	29	heart	17	7 16	ther.
S	St. Thomas.	♑	and	18	8 18	*Shorteſt Day.*
P	4 S. in Advent.	1	back	19	9 21	Rough
M	☿ riſes 6 25 m.	2	bow.	20	10 23	winds, with
Tu	Day br. 6 1	3	belly	21	11 26	☌ ♃ ☿
W	Chriſtmas Day.	4	reins	22	morn.	ſome ſnow
Th	St. Stephen.	5	and	23	0 28	✶ ♄ ☿
F	St. John.	6	loins	24	1 33	☌ ☿ ☿
S	Innocents.	7	ſecret	25	2 38	☌ ♃ ☿
P	Sunu. aft. Chriſt.	8	memb.	26	3 46	
M	Tw. ends 6 0	9	hips	27	4 54	or cold rain.
Tu	*Silveſter.*	10	thighs	28	6 2	

The 1 day, at 5 morn. Venus
The 2 day, at 4 aftern. Mercury
The 3 day, at noon, Jupiter
The 11 day, at 8 aftern. Saturn
The 26 day, at 9 morn. Mars
The 28 day, at 10 aftern. Mercury
} is with the Moon.

M D	Sun riſes	Sun ſets	Moon Souths
F	7 57	4 3	10m23
2	7 58	4 2	11 14
3	7 59	4 1	0 a 5
4	8 0	4 0	1 0
5	8 1	3 59	1 58
6	8 2	3 58	2 55
7	8 3	3 57	3 52
F	8 3	3 57	4 47
9	8 4	3 56	5 40
10	8 5	3 55	6 31
11	8 5	3 55	7 21
12	8 6	3 54	8 11
13	8 6	3 54	9 2
14	8 7	3 53	9 53
F	8 7	3 53	10 45
16	8 7	3 53	11 37
17	8 8	3 52	morn.
18	8 8	3 52	0 29
19	8 8	3 52	1 20
20	8 8	3 52	2 10
21	8 8	3 52	2 57
F	8 8	3 52	3 43
23	8 8	3 52	4 27
24	8 8	3 52	5 9
25	8 7	3 53	5 51
26	8 7	3 53	6 33
27	8 7	3 53	7 16
28	8 6	3 54	8 1
F	8 6	3 54	8 48
30	8 6	3 54	9 39
31	8 5	3 55	10 33

Monthly Obſervations.

Rain fell in Dec. 1791, was 1,12 Inches.

New moon 3 day at 11 morn.

Rain or Snow (more or leſs) may be expected about the 3, 12, 16, 25, and 28 Days of this Month; the Day before or the Day after.

Great Inſurrections have appeared, or will ſoon happen, at Conſtantinople, and many Outrages committed there; even ſo far as to threaten the Life of the Grand Signior himſelf. Rebellions in ſeveral Parts of the Turkiſh Dominions, fermented by a Baſha of Three Tails, and other great Men in Power, who oppreſs and rob the Public, for which they will be obliged to ſubmit their Necks to the Bow String. Some Animoſities are likely to break out between the Pope and ſome other States concerning the Extent of his Holineſs's Authority in ſome religious Matters.

Firſt quar. 10 day at 8 morn.

Full moon 17 day, at 11 morn.

Laſt quar. 25 day, at 1 aftern.

God preſerve his Majeſty of Great Britain, and all the Royal Family, and grant him a long and proſperous Reign. *Amen.*

The Dominion of the Moon in Man's Body

Passing under the Twelve Zodiacal Constellations.

♈ *Aries* Head and Face	♎ *Libra* Reins and Loins
♉ *Taurus* Neck and Throat	♏ *Scorpio* secret Members
♊ *Gemini* Arms and Shoulders	♐ *Sagittary* Hips and Thighs
♋ *Cancer* Breast and Stomach	♑ *Capricorn* Knees and Hams
♌ *Leo* Heart and Back	♒ *Aquarius* Legs and Ancles
♍ *Virgo* Bowels and Belly	♓ *Pisces* Feet and Toes

The Names and Characters of the PLANETS.

With *Dragon's Head* and *Tail.*

♄ Saturn
♃ Jupiter
♂ Mars
} ☉, or the Sun {
♀ Venus
☿ Mercury
☽ the Moon

☊ Dragon's Head. ☋ Dragon's Tail.

The CHARACTERS of the ASPECTS.

☌ Conjunction
⚹ Sextile
} ☍ Opposition {
△ Trine
□ Quartile.

Upon the TWELVE SIGNS.

♈ The Head and Face the *Ram* doth always rule:
♉ The Neck and Throat are govern'd by the *Bull.*
♊ O'er the Arms and Shoulders still the *Twins* preside:
♋ Breast, Stomach, Ribs, the crooked *Crab* doth guide.
♌ The noble *Lion* rules the Back and Heart:
♍ The bashful *Virgin* claims the Belly Part.
♎ The Reins and Loins the equal *Balance* weigh:
♏ The *Scorpion* o'er the Secret Parts doth sway.
♐ The curious *Archer* doth the Thighs affect;
♑ So doth the *Goat* our bended Knees protect.
♒ The Legs unto *Aquarius'* Lot do fall:
♓ The *Fish* our active Feet their Portion call.

A plain and eaſy TABLE, ſhewing the Time of HIGH-WATER

NOTE, That the Moon's Age being taken notice of in the TABLE, you have the Time of HIGH-WATER at all the undernamed Places.

Queenborough, Portſmouth, Southampton, Kentiſh-Knock, Leith, Beachy, Iſle of Wight, Dunkirk, Calais, Coaſt of Flanders, at the Spits and Dover Pier.

Graveſend, Downs, Blackneſs, Romney, Thanet, Scilly Half-tide, North-Cape before Cocquit, and between Calais and Dover.

London, Tinmouth, Hartlepool, Amſterdam, Whitby, Dort, Gaſcoin, Weſt of Ireland, at Groin, at Rotterdam, and in Robin-Hood's Bay.

Newcaſtle, Humber, Falmouth, Severn-mouth, at the Spurn between Scilly and Lizard, Ramſey, Dartmouth, Guernſey, Torbay, St. Malo's.

Plymouth, Antwerp, Hull, St. David's, Holms of Briſtol, Lundy, St. Paul's, Saleom without Iſland, at Waterford, Boſton, and at Lynn Half-tide.

Briſtol-Key, Weymouth-Key, Aldborough, Foulneſs, Lims, the Start before St. Nicholas, Sedmouth in the Channel, between Foy and Falmouth.

Yarmouth-Road, Harwich, Calais-Road, Dover, Cowes, Caen, the Frith, South-Foreland, St. Helen's, Coaſt of Normandy, and Picardy.

Hague, Peter-port, Dublin, between Beachy and the Iſle of Wight, Yarmouth, St. Magnus's Sound, Combay, without the Caſtle in the Channel.

D's Age	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	16	12	48	2	18	3	48	6	3	6	48	7	33	11	18	9	3
2	17	1	36	3	6	4	36	6	51	7	36	8	21	12	6	9	51
3	18	2	24	3	54	5	24	7	39	8	24	9	9	12	54	10	39
4	19	3	12	4	42	6	12	8	27	9	12	9	57	1	42	11	27
5	20	4	0	5	30	7	0	9	15	10	0	10	45	2	30	12	15
6	21	4	48	6	18	7	48	10	3	10	48	11	33	3	18	1	3
7	22	5	36	7	6	8	36	10	51	11	36	12	21	4	6	1	51
8	23	6	24	7	54	9	24	11	39	12	24	1	9	4	54	2	39
9	24	7	12	8	42	10	12	12	27	1	12	1	57	5	42	3	27
10	25	8	0	9	30	11	0	1	15	2	0	2	45	6	30	4	15
11	26	8	48	10	18	11	48	2	3	2	48	3	33	7	18	5	3
12	27	9	36	11	6	12	36	2	51	3	36	4	21	8	6	5	51
13	28	10	24	11	54	1	24	3	39	4	24	5	9	8	54	6	39
14	29	11	12	12	42	2	12	4	27	5	12	5	57	9	42	7	27
15	30	12	0	1	30	3	0	5	15	6	0	6	45	10	30	8	15

The foregoing TABLE explained.

NOTE, That the Moon's Age being taken notice of, by the Rule in this TABLE you may obtain the Time of HIGH-WATER at all the Places above-named. Obſerve, When the Moon is one or ſixteen Days old, it is HIGH-WATER at London, Tinmouth, Hartlepool, &c. at 3 o'Clock, and 48 Minutes paſt. Obſerve the ſame of the reſt, which is plain to the meaneſt Capacity. The Day of the Moon's Age you have in the ſixth Column on every Left hand Page of the Calendar.

KINGS and QUEENS from the Conqueſt.

KINGS Names.	Began their Reigns.	Reigned Y. M. D.	Since their Reigns	Buried at
W. Conq.	1066 Oct. 14	20 10 26	706 Sept. 9	Caen, Norm.
W. Rufus	1087 Sept. 9	12 10 24	693 Aug. 2	Wincheſter
Henry 1	1100 Aug. 2	35 3 29	658 Dec. 1	Reading
Stephen	1135 Dec 1	18 10 24	639 Oct. 25	Feverſham
The Saxon Line reſtored.				
Henry 2	1154 Oct. 25	34 8 11	604 July 6	Fontevrault
Richard 1	1189 July 6	9 9 0	594 April 6	Fontevrault
K. John	1199 Apr. 6	17 6 13	577 Oct. 19	Worceſter
Henry 3	1216 Oct. 19	56 0 28	521 Nov. 16	Weſtminſter
Edward 1	1272 Nov. 16	34 7 21	486 July 7	Weſtminſter
Edward 2	1307 July 7	19 6 18	466 Jan. 25	Glouceſter
Edward 3	1327 Jan. 25	50 4 27	416 June 21	Weſtminſter
Richard 2	1377 June 21	22 3 8	394 Sept. 29	Weſtminſter
The Line of Lancaſter.				
Henry 4	1399 Sept. 29	13 5 20	380 Mar. 20	Canterbury
Henry 5	1413 Mar. 20	9 5 11	371 Aug. 31	Weſtminſter
Henry 6	1422 Aug. 31	38 6 4	332 Mar. 4	Windſor
The Line of York.				
Edward 4	1461 Mar. 4	22 1 5	310 April 9	Windſor
Edward 5	1483 Apr. 9	0 2 13	310 June 22	Unknown
Richard 3	1483 June 22	2 2 0	308 Aug. 22	Leiceſter
The Families United.				
Henry 7	1485 Aug. 22	23 8 0	284 Apr. 22	Weſtminſter
Henry 8	1509 Apr. 22	37 9 6	246 Jan. 28	Windſor
Edward 6	1547 Jan. 28	6 5 8	240 July 6	Weſtminſter
Q. Mary	1553 July 6	5 4 11	235 Nov. 17	Weſtminſter
Q. Elizabeth	1558 Nov. 17	44 4 7	190 Mar. 2	Weſtminſter
The Union of the Two Crowns.				
James 1	1603 Mar. 24	22 0 3	168 Mar. 27	Weſtminſter
Charles 1	1625 Mar. 27	23 10 3	144 Jan. 30	Windſor
Charles 2	1649 Jan. 30	36 0 7	108 Feb. 6	Weſtminſter
James 2	1685 Feb. 6	4 0 7	104 Feb. 13	Paris
Will. & Mary	1689 Feb. 13	13 0 23	91 Mar. 8	Weſtminſter
The Union of the Two Kingdoms.				
Q. Anne	1702 Mar. 8	12 4 24	79 Aug. 1	Weſtminſter
George 1	1714 Aug. 1	12 10 10	66 June 11	Hanover
George 2	1727 June 11	33 4 14	33 Oct. 25	Weſtminſter
George 3	1760 Oct. 25	Crowned September 22, 1761.		

A TABLE of the Equation of Time for regulating Clocks and Watches for 1793. Note, fa. Clock too fast, that is your Clock, to be set right, must be so much faster than the Sun Dial. flo. Clock too slow, that is your Clock must be so much slower than the Sun Dial.

D.	January	February	March	April	May	June
1	4' fa. 22"	14' fa. 7"	12' fa. 32"	3' fa. 46"	3' fl. 11'	2 33"
3	5 17	14 20	12 6	3 9	3 25	2 14
5	6 11	14 29	11 38	2 34	3 36	1 54
7	7 3	14 36	11 9	1 59	3 45	1 32
9	7 54	14 39	10 38	1 25	3 52	1 9
11	8 41	14 39	10 6	0 53	3 57	0 45
13	9 27	14 36	9 33	0 21	3 59	0 20
15	10 10	14 30	8 59	flow 9	3 58	0 fast 5
17	10 49	14 21	8 23	0 38	3 56	0 31
19	11 26	14 9	7 47	1 5	3 52	0 57
21	12 0	13 55	7 11	1 31	3 45	1 23
23	12 30	13 37	6 33	1 55	3 36	1 48
25	12 58	13 18	5 56	2 17	3 26	2 13
27	13 22	12 56	5 19	2 37	3 13	2 38
29	13 42		4 41	2 55	2 58	3 2

D	July	August	September	October	Novemb.	Decemb.
1	3' fa. 25"	5' fa. 51"	0' fl. 25"	10' fl. 34"	16' fl. 15"	20' fl. 22"
3	3 48	5 43	1 4	11 10	16 24	20 34
5	4 9	5 32	1 43	11 46	16 30	20 44
7	4 29	5 18	2 22	12 19	16 3	20 52
9	4 47	5 3	3 3	12 52	15 53	20 58
11	5 4	4 45	3 44	13 22	15 39	21 2
13	5 19	4 24	4 26	13 50	15 22	21 5
15	5 32	4 2	5 8	14 16	15 1	21 7
17	5 43	3 37	5 50	14 41	14 38	21 8
19	5 51	3 10	6 32	15 2	14 11	21 9
21	5 58	2 41	7 14	15 22	13 40	21 9
23	6 2	2 11	7 56	15 38	13 7	21 9
25	6 3	1 39	8 36	15 51	12 30	fast 31
27	6 3	1 5	9 17	16 2	11 50	21 51
29	6 0	0 30	9 56	16 10	11 8	21 49

How to set a Clock or Watch by this Table. For Example, Jan. the 1st, I find, by looking into the Table, that a Clock to be right must be 4 Minutes 8 Seconds faster than a Sun Dial; therefore I set it so much faster accordingly. And so of the rest. Twelve o'Clock is the best Time to set a Clock or Watch by a Dial.

Note. A Sun Dial shews Solar or Apparent Time; but a Clock, &c. should be set to Equal or Mean Time, as the Table directs, to go true.

A TABLE of TERMS and RETURNS for the Year 1793

Hillary Term begins Jan. 23, ends Feb. 12.

Returns, or Eſſoign Days.	Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary - - - - Jan. 20	21	22	23	Wedneſday
In fifteen Days of St. Hilary - - - - - 27	28	29	30	Wedneſday
On the Morr. of the Purif. of the Bl. V. M. Feb. 3	4	5	6	Wedneſday
In eight Days of the Purif of the Bl. V. M. - 9	10	11	12	Tueſday

Eaſter Term begins April 17, ends May 13.

In fifteen Days of Eaſter - - - - April 14	15	16	17	Wedneſday
From Eaſter Day in three Weeks - - - - 21	22	23	24	Wedneſday
From Eaſter Day in one Month - - - - - 28	29	30	M. 1	Wedneſday
From Eaſter Day in five Weeks - - May 5	6	7	8	Wedneſday
On the Morr. of the Aſcenſion of the Lord - - 10	11	12	13	Monday

Trinity Term begins May 31, ends June 19.

On the Morrow of the Holy Trinity - May 27	28	29	31	Friday
In eight Days of the Holy Trinity - - June 2	3	4	5	Wedneſday
In fifteen Days of the Holy Trinity - - - - 9	10	11	12	Wedneſday
From the Day of the Holy Trinity in 3 Weeks 16	17	18	19	Wedneſday

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls - - - Nov. 3	4	5	6	Wedneſday
On the Morrow of St. Martin - - - - - 12	13	14	15	Friday
In eight Days of St. Martin - - - - - 18	19	20	21	Thurſday
In fifteen Days of St. Martin - - - - - 25	26	27	28	Thurſday

N. B. No Sittings in Weſtminſter-Hall on the Second of February, Aſcenſion day, and Midſummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The firſt and laſt Days of every Term are the firſt and laſt Days of Appearance.

COMMON NOTES for the Year 1793.

Golden Number	8	Lent begins	Feb. 13
Epact	17	Eaſter-day	Mar. 31
Dominical Letter	F	Rogation Sunday	May 5
Cycle of the Sun	10	Aſcenſion day	May 9
Sundays after Epiphany	2	Whit. Sunday	May 19
Number of Direction	10	Sundays after Trinity	26
Septuageſima Sunday	Jan. 27	Advent Sunday	Dec. 1

CHRONOLOGY of many remarkable OCCURRENCES

Years of Chriſt.		*Years ſince*
1066	William (the Norman) conquered England	72
1185	Ireland conquered by the Engliſh	60
1299	Windmills invented	47
1302	The Mariner's Compaſs invented	49
1304	Edward I. reduced Scotland	48
1330	Gunpowder diſcovered by a Prieſt	46
1369	Wickliff firſt began the Reformation	42
1441	Printing invented by a German	35
1492	Columbus diſcovered America	30
1535	Cannon firſt uſed	25
1584	Virginia diſcovered by Sir Walter Raleigh	20
1590	Teleſcopes invented by Janſen, a Dutchman	20
1603	Queen Elizabeth died, King James ſucceeded	19
1603	A great Plague in London, died 56,570	19
1603	King James I. crowned July 15, at Weſtminſter	19
1605	The Popiſh Gunpowder Plot, November 5	18
1610	Jupiter's Satellites firſt diſcovered	18
1614	The New River brought to London	17
1616	Shakeſpeare the Poet died	17
1625	A great Plague in London, died 34,517	16
1625	K. James I. died, K. Charles I. crown'd, Feb. 2	16
1632	A great Fire on London Bridge, Feb. 11	16
1634	Old Parr died, aged 152, he lived in ten Reigns	15
1641	The Earl of Strafford beheaded, May 12	15
1641	The cruel Iriſh Maſſacre, began October 23	15
1642	Sir Iſaac Newton born, December 25	15
1649	King Charles I. beheaded	14
1651	The bloody Fight at Worceſter	14
1653	Oliver Cromwell made Protector, Dec. 12	14
1655	George Fox, the firſt of the Quakers	13
1658	Spring Pocket-Watches, invented by Dr. Hook	13
1658	Oliver Cromwell died, Sept. 3	13
1660	King Charles II. reſtored, May 29	13
1661	K. Charles II. crown'd, April 23, at Weſtminſter	13
1661	A great Storm in London, Feb. 18	13
1662	The Royal Society inſtituted	13
1665	A great Plague in London, whereof died 68,586	12
1666	The lamentable burning of London, Sept. 2	12
1667	Peace with Holland, France and Denmark	12
1667	The Royal Exchange built	12

1668	Peace proclaimed with Spain, Feb. 12 - -	125
1669	The Royal Exchange firſt opened, Sept. 28 -	124
1670	The Prince of Orange arrives at Whitehall -	123
1672	War declared againſt the Dutch - - - -	121
1672	Halfpence and Farthings firſt coined, Aug. 16	121
1674	Peace with Holland, proclaimed Feb. 28 - -	119
1677	Prince of Orange married to the Princeſs Mary	116
1678	The Popiſh Plot diſcovered - - - - - -	115
1679	The Habeas Corpus Act paſſed - - - - -	114
1680	A great Comet appeared in December - -	113
1682	Another great Comet appeared - - - - -	111
1683	The Penny-Poſt Office eſtabliſhed - - -	110
1684	The great Froſt that held 13 Weeks - - -	109
1685	K. Charles II. died, and K. James II. ſucceeded	108
1685	The Duke of Monmouth beheaded, July 15	108
1688	The ſeven Biſhops ſent to the Tower, June 8 / The Pretender ſaid to be born, June 10 -	105
1688	Prince of Orange landed at Torbay, Nov. 4 -	105
1688	King James II. abdicated, Dec. 12 - - -	105
1689	King William and Q. Mary crowned, April 11	104
1692	Port Royal ſwallowed up by an Earthquake -	101
1692	A great Earthquake in England, Sept. 8 -	101
1693	Hackney Coaches firſt licenſed - - - - -	100
1693	Bank of England eſtabliſhed - - - - - -	100
1694	Lotteries firſt eſtabliſhed - - - - - - -	99
1702	K. William died, and Q. Ann began to reign -	91
1702	Queen Ann declared War againſt France - -	91
1704	Gibraltar taken by Sir George Rook - - -	89
1706	The Battle at Ramillies on Whit-Sunday - -	87
1707	England and Scotland united, May 1 - - -	86
1708	The Pretender attempted to invade Great-Britain	85
1709	The French beat in the Wood of Blanglies -	84
1710	Great Riots and Diſturbances in England - -	83
1713	Peace with France proclaimed, May 5 - - -	80
1714	Q. Ann died, and Geo. I. began to reign, Aug. 1	79
1715	A total Eclipſe of the Sun, April 22 - - -	78
1715	The Rebellion in Scotland and Lancaſhire - -	78
1716	A great Froſt and Snow. A Fair on the Thames	76
1718	The firſt Appearance of the Northern Lights -	75
1719	A great fiery Meteor, March 19, at 8 at Night	74
1727	The great Sir Iſaac Newton died, March 20 -	66
727	K. George I. died June 11. K. Geo. II. procl. 15	66

1727	An Earthquake in ſeveral Parts of England -	66
1739	War declared againſt Spain, Oct. 23 - - -	54
1739	Ports of Porto Bello deſtroyed by Admiral Vernon	54
1739	A hard Froſt for 9 Weeks, begun Dec. 24 - -	54
1743	The Battle of Dittengen, June 16 - - -	50
1744	Anſon compleated his Voyage round the World	49
1744	War declared by Gr. Br. againſt France, Mar. 31	49
1745	A Rebellion in Scotland - - - - - -	48
1746	The Scotch Rebels defeated at Culloden, Apr. 16	47
1748	A general Peace concluded, October 7 - -	45
1750	Weſtminſter Bridge finiſhed, coſt £ 389,500 -	43
1750	Earthquakes in London, Feb. 8, and Mar. 8 -	43
1752	The Style and Calendar altered, Sept. 2 - -	41
1755	Liſbon deſtroyed by an Earthquake - - -	38
1756	War declared againſt France - - - - -	37
1758	A large Comet appeared, foretold by Dr. Halley	35
1760	K. Geo. II. died, Oct. 25, K. Geo. III. procl. 26	33
1762	A great Snow for 18 Days together, in Feb. -	31
1763	A general Peace proclaimed, March 22 - -	30
1765	Otaheite in the South Seas diſcovered - - -	28
1765	Longitude found by Harriſon's Time-piece, and 18,750l. given him - - - -	28
1765	General Warrants declared illegal - - - -	28
1766	Gibraltar almoſt deſtroyed by a Storm - - -	27
1770	Blackfriars Bridge finiſhed, coſt £ 152,840 -	23
1772	Swedes forced to reſign their Liberties to the K.	21
1773	The light Gold called in and recoined - - -	20
1775	War declared againſt North America, Aug. 23	18
1776	The Americans declare themſelves independent	17
1778	The French ſign a Treaty with the Americans	15
1778	War againſt France commenced - - - - -	15
1779	War againſt Spain begun - - - - - -	14
1780	War againſt Holland commenced - - - -	13
1780	Riots in London, and Goals burned - - -	13
1780	Spaniſh Fleet defeated at Gibraltar - - -	13
1781	New Planet diſcovered by Herſchel - - - -	12
1783	A general Peace - - - - - - - -	10
1783	Fiery Meteor paſſed over England, Aug. 18 -	10
1787	A Commercial Treaty with France concluded -	6
1789	A Revolution in France - - - - - - -	4
1791	Joſeph II. Emperor of Germany died - - -	2
1792	King of Sweden ſhot at a Maſquerade by one of his Subjects - - - - - -	1

A TABLE of the Rising, Southing, and Setting of the Pleiades, or Seven Stars, for every 4th Day in the Year, of especial Use to find the Hour of the Night.

Month & Days	Rise h m	South h m	Sets h m	Month & Days	Rise h m	South h m	Sets h m
January 1	0 28	8 a 4	5 m 2	July 1	0 m 38	8m 54	5 8 10
6	0 a 6	8 a2	4 38	6	0 18	8 34	4 50
11	11 m 44	8 0	4 16	11	11 A 57	8 13	4 29
16	11 a3	7 39	3 55	16	11 37	7 53	4 9
21	10 52	7 18	3 34	21	11 17	7 33	3 49
26	10 49	6 56	3 12	26	10 57	7 13	3 29
February 1	10 17	6 33	2 49	August 1	10 33	6 49	3 5
6	9 56	6 12	2 28	6	10 14	6 30	2 46
11	9 36	5 52	2 8	11	9 55	6 11	2 27
16	9 17	5 33	1 49	16	9 36	5 52	2 8
21	8 58	5 14	1 30	21	9 17	5 33	1 49
26	8 39	4 55	1 11	26	8 59	5 15	1 31
March 1	8 28	4 44	1 0	September 1	8 37	4 53	1 9
6	8 10	4 26	0 42	6	8 19	4 35	0 51
11	7 52	4 8	0 24	11	8 1	4 17	0 33
16	7 33	3 49	0 5	16	7 43	3 59	0 5
21	7 15	3 31	11 a 47	21	7 26	3 42	11 m 58
26	6 57	3 13	11 29	26	7 8	3 24	11 40
April 1	6 35	2 51	11 7	October 1	6 52	3 6	11 22
6	6 17	2 33	10 49	6	6 33	2 48	11 4
11	5 58	2 14	10 30	11	6 13	2 29	10 45
16	5 40	1 56	10 12	16	5 54	2 10	10 26
21	5 21	1 37	9 53	21	5 36	1 52	10 8
26	5 2	1 19	9 35	26	5 15	1 31	9 47
May 1	4 43	0 59	9 15	November 1	4 54	1 10	9 26
6	4 25	0 40	8 56	6	4 34	0 50	9 6
11	4 5	0 21	8 37	11	4 14	0 30	8 46
16	3 45	0 1	8 17	16	3 53	0 9	8 25
21	3 25	11 m 42	7 58	21	3 28	11 a 44	8 c
26	2 56	11 22	7 38	26	3 7	11 23	7 39
June 1	2 41	10 57	7 13	December 1	2 46	11 2	7 18
6	2 21	10 37	6 53	6	2 24	10 40	6 56
11	2 1	10 17	6 33	11	2 2	10 18	6 34
16	1 42	9 58	6 14	16	1 40	9 56	6 12
21	1 19	9 35	5 51	21	1 18	9 34	5 50
26	0 59	9 15	5 31	26	0 56	9 12	5 28

TABLE of ſome principal fixed Stars, with the Time they Riſe, South and Set, either before or after the Seven Stars; as alſo their Colour, Magnitude, and Meridian Altitude, by which they may be readily diſcovered.

Colour.	Alt.	Mag.	Names of the Stars.	Riſe h m	South h m	Sets h m
♂	53	1	Aldebaran, or Bull's Eye	1 a 31	0 a 48	0 b 0
♄ ♃	29	1	Left Foot of Orion -	4 31	1 31	1 34
♃ ♄	36	2	Middle * in Orion's Belt	4 13	1 54	0 35
♂ ☿	45	1	Right Shoulder of Orion	3 23	2 8	0 8
♀ ♂	21	1	Syrius, the great Dog	6 41	3 1	0 48
♂	43	2	Procyon, the little Dog	5 33	3 53	2 a 7
♄ ♀	30	1	Heart of Hydra - -	8 39	5 41	2 44
♄ ♂	51	1	Regulus, Lion's Heart	7 26	6 21	5 16
☿	54	1	The Lion's Tail, Denab	8 42	7 54	7 7
♀ ♂	28	1	Virgin's Spike - -	12 46	9 38	6 36
♂ ♃	58	1	Arcturus - - - -	10 47	10 30	10 12
♂	12	1	Antares, the Scorp. Heart	17 36	12 39	7 42
♄ ☿	46	2	Bright * of the Vulture	17 38	16 3	9 a 27
♀ ☿	6	1	Femelhaut - - - -	11 14	19 11	10 57
♀ ♃	56	2	Head of Andromeda -	10 2	10 10	2 56

THE brighteſt of the ſeven ſtars is of the third magnitude, and hath 61 degrees of meridian altitude, and in colour participates of the ☽ and ☿.

The fixed ſtars all riſe, ſouth, and ſet about four minutes ſooner every night than they did the night before; this conſidered, the exact time of riſing, ſouthing, and ſetting, for any intermediate night, not herein noted, may be very eaſily deduced from theſe Tables, by inſpection only.

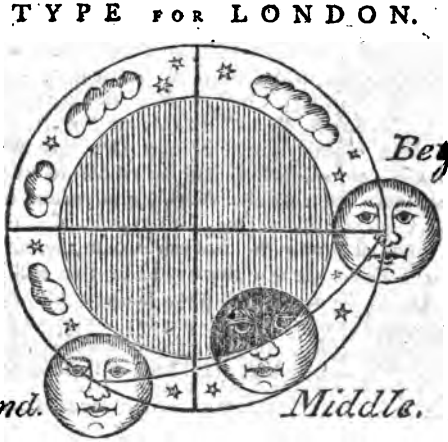
To know the time of riſing, ſouthing, and ſetting of any ſtar in this table, for any day required, it is but conſidering how many hours and minutes that ſtar riſes, ſouths, or ſets, either before or after the ſeven ſtars on that day, and you will have your deſire; obſerving that in this *Table*, a ſtands for *after*, and b for *before*.

An Account of the ECLIPSES *of the* SUN *and* MOON, *and other Aſtronomical Appearances, which happen this Year*, 1793.

THE two great Lamps of Heaven will this Year afford four Eclipſes; namely, each Luminary two: Theſe happen in the following Order:

The firſt is a partial and viſible Eclipſe of the Moon, if Clouds interpoſe not, on *Monday, February* the 25th, in the 8th Degree of *Virgo*. At the Beginning of this Eclipſe the Moon is vertical to ſuch as are ſituated near the Eaſtern Coaſt of *Abyſſinia*, in *Ethiopia*, in the *African* Deſarts, under 8 Degrees 10 Min. of North Latitude, 39 Degrees 3 Min. Eaſt from London: At the greateſt Obſcuration ſhe is in the Vertex of *Tamalma*, (near one of the Sources of the River Nile) in *Ethiopia*, Long. 18 Deg. 42 Min. Eaſt from *London*, in 7 Deg. 59 Min. of North Latitude; and at the End ſhe is directly over the Gold Coaſt in *Guinea*, Lat. 7 Deg. 48 Min. North, in Long. 1 Deg. 38 Min. Weſt from *London*; conſequently this Eclipſe is viſible quite through *Africa* and *Europe*, and the greateſt Part of *Aſia*; but to the Inhabitants of *North* and *South America*, and the *Weſt India Iſlands*, Part only will be viſible, for the Moon with them will riſe eclipſed; Newfoundland, and the Eaſtern Coaſts of the *Braſils* in *South America* excepted.

TYPE FOR LONDON.



Feb. 29, at Night.	London. h. m. s.	York. h. m. s.	Edinburgh h. m. s.	
Beginning	9 23 48	9 19 17	9 10 59	Apparent Time.
Ecliptic Opp.	10 36 0	10 31 29	10 23 11	
Middle	10 45 10	10 40 39	10 32 21	
End	12 6 32	12 2 1	11 53 43	

	h. m. s.
Total Duration	2 42 44.
Digits eclipsed	6° 9′ 10″.

The second is a Solar Eclipse, and happens on *Tuesday* the 12th Day of *March*, at 57 Min. past our 5 in the Morning; but by Reason of the Moon's South Latitude, this Eclipse will not be visible to us, nor even to any Part of *Europe*. In the remote Southern Parts of the World, this will be a very great Eclipse; for, in 98 Deg. East Longitude from *London*, and Latitude 46 Deg. 30 Min. South, (which falls in the great Eastern Ocean) the Sun will be centrally and totally eclipsed at Noon-Day; but the total Darkness will be of very small Continuance, for the apparent Diameters of the Sun and Moon at that Time are nearly equal. This Eclipse will be visible in *New Holland*, and all along the Eastern Coast thereof, of 2000 Miles Extent, called *New South Wales*, explored by the late Capt. *Cooke*, in the Year 1770, on which Coast *Botany Bay* is situated.

The third is another partial Eclipse of the Moon, upon *Wednesday*, *August* 21st, at 53 Min. after 2 in the Afternoon, consequently invisible in these Parts. At the Middle of this Eclipse the Moon will be vertical to *Arnheim's* Land, on the Northern Coast of *New Holland*, about 100 Leagues to the South-West of *Endeavour Straits*, under 11 Deg. 14 Min. South Latitude, 136 Deg. 40 Min. East from *London*, consequently it will be visible to all the unknown Southern Parts of the World, quite round the Pole, within the Compass of 11 Deg. also to *New Zealand*, *New Holland*, and all along the Eastern Coast thereof, called *New South Wales*, (hence there will be two Eclipses this Year visible at *Botany Bay*) *New Guinea*, the *Philippine Isles*, those of *Malacca*, *Borneo*, *Sunda*, the *New Hebrides*, and the *Friendly Isles*; it will extend itself to the *Society* and *Sandwich Islands*, where the Moon will be observed to

set

ſet juſt as the Eclipſe ends; it alſo extends itſelf to the Weſtward, as far as the Iſland of *Madagaſcar*, and the Eaſtern Parts of *Africa*, where Part only will be viſible, the Moon riſing eclipſed with them in thoſe Parts. Digits eclipſed at the Middle are near 9 on the Moon's lower Limb.

The fourth and laſt is a notable Eclipſe of the Sun, upon *Thurſday* the 5th of *September* in the Morning, viſible in theſe Parts of the Globe, and is the greateſt Eclipſe of the Sun we ſhall have had in *England* ſince that of the 1ſt of *April*, in the Year 1764, which Eclipſe I obſerved with ſeveral other Gentlemen, at Sir *Chriſtopher Whichcot*'s Seat at *Aſwarby* in *Lincolnſhire*.

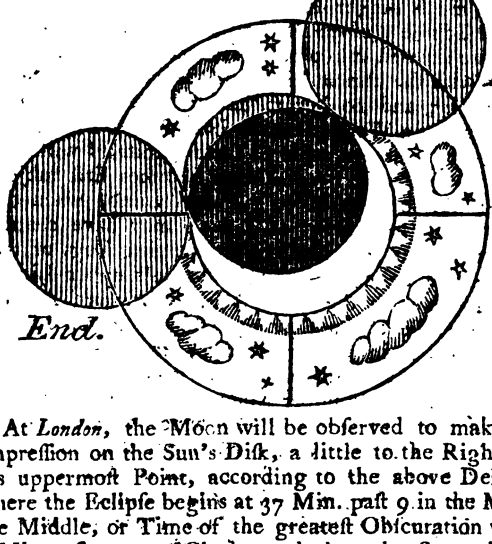
It will be firſt ſeen to begin upon the vertical Point of the Sun's Periphery at his Riſing, which will be near the Great Fiſhing Bank of *Newfoundland*. The Central Eclipſe will be firſt ſeen to begin at Sun Riſe, on the Northern Parts of *Hudſon's Bay*, near to *Hudſon's Straits*; and directing its Courſe towards the South-Eaſt, it paſſeth over the Southern Parts of *Greenland*, (leaving *Ireland* a little to the North) towards the Weſtern Iſlands; from thence it paſſeth over the Northern Parts of *Scotland*, over *Denmark*, *Sweden*, and *Poland*, towards the *Caſpian Sea*, and the Northern Parts of *Perſia*, where it enters the *Mogul Empire*, and there it quits the Earth with the ſetting Sun; the Moon being near the Apogee, the Central Shade will not reach the Earth, therefore the Eclipſe, where central, will not be total, but the Spectators throughout the above-mentioned Track, will be entertained with a beautiful luminous Annulus, or Ring of Light, near Half a Digit in Breadth. The whole Penumbra leaves this terraqueous Globe, and the Eclipſe will be laſt ſeen to end upon the vertical Point of the Sun's Diſk at his ſetting, which Place will be in the *Indian Sea*, a little more than 300 Miles from the Southern Coaſt of *Arabia*, near the Iſland of *Socotra*. In the South Parts of this Kingdom, the Quantity of the Eclipſe will be near 9 Digits and a Half; in more Northerly Situations the Defect is greater, inſomuch, that in the Northern Parts of *Scotland*, where it is annular, it amounts to 11 Digits, 33 Minutes, and 34 Seconds; but the Dilatation of the Annulus, occaſioned by the Paſſage of its Rays through the groſs Particles of

our

our Atmosphere, will make it appear more than Half Digit in Breadth.

The following Type and Delineation thereof, adapte to *London*, may, without sensible Error, serve all Parts c the Kingdom South of the Track of annular Appearance the Quantity of Light excepted.

The TYPE FOR LONDON.



At *London*, the Moon will be observed to make the firs Impression on the Sun's Disk, a little to the Right-hand c his uppermost Point, according to the above Delineation where the Eclipse begins at 37 Min. past 9 in the Morning the Middle, or Time of the greatest Obscuration will be a 3 Min. after 11 o'Clock, and then the Sun will appea at least nine Parts out of Twelve, covered. The Moon quits the Sun's Limb on the Left Hand, and the Eclips will end at 44 Min. after 12, apparent Time: Th Duration will be 3 Hours and 7 Min. The true Eclipti Conjunction March the 4th, 23 h. 56 m. 52 sec. Sun an Moon's Place then, in ♓, 15° 17′ 25″; and the Moon' true Latitude 40′ 11″ North. Semidiameter of the Sun 15′ 56″; Semid. of the Moon 14′ 46″; true hourly Mo tion of Moon from Sun 27′ 7″; Moon's Horizontal Pa rallax 54′ 12″, and that of the Sun's, 9″. *Som*

Some other Aſtronomical Remarks.

THE Lunar Nodes have of late been ſo poſited as to make the Moon in theſe Northern Latitudes obſcure om its Beholders; that notable fixed Star, called *Aldebaran*, every Appulſe to that Star. This took Place at the End the Year 1791, and will continue within the Limits of unar Occultations, until ſome Time in the Year 1795, hen they will ceaſe, and be no more Occultations till e next Revolution of the Moon's Node) which is a long ime, and much longer than any other Star can be ſub- ct to ſuch Eclipſes, eſpecially any Star of Note; becauſe ne ſuch are ſituated at ſo proper Diſtance from the Ecliptic to agree with the utmoſt Limits of the Moon's Latitude, *Aldebaran* is; and no Perſon having ſtated the Limits actly (it being a Work of much Labour and Time) and aving ſome Time ago adjuſted thoſe Limits, I will here ve them to the Public:—*Aldebaran* becomes firſt ſubject Occultations by the Moon's lower Limb, when the oon's Node is in 9 Deg. of *Libra*; may have central onjunctions, when the Node is in the firſt Deg. of the ne Sign; and be covered by the Moon's upper Limb, ien the Node is in the 26th Deg. of *Virgo*. Again, *ldebaran* may be covered by the Moon's lower Limb, ien the Node is in 3 Deg. of *Leo*; may be centrally njoined when the Node is in 9 Deg. of *Leo*; and be vered by the Moon's upper Limb, when the Node is in Deg. of *Leo*: ſo that we may hence conclude, that ilſt the Moon's North Node is moving retrograde from Deg. of *Libra* to 3 Deg. of *Leo* (which is about 3 Years d 6 Months), ſo long may *Aldebaran* continue within the mits of Lunar Occultations. This Piece of Service ing performed for the Sons of Art, they may now with ne Certainty know when to expect the Eclipſes of that ir, and not be obliged to make tedious Calculations to ne to that Knowledge, which was before neceſſary; l from theſe Principles we can now with good Certainty nounce that *Aldebaran* will be no more ſubject to viſible cultations than till about the middle of *May* 1795; er which, we muſt wait for ſeveral Years. If the Air ves favourable, the three following Occultations of *Alde- an* by the Moon, that are this Year worthy of Notice, will

will be visible; beside one of the Planet *Mars*. On *Tuesday* the 22d of *January*, in the Morning, the Moon eclipses *Aldebaran*; the Time of Immersion behind the Moon's Limb will be at 33 Min. after 2; and the Emersion, or Time of coming from behind the Moon's Limb, will be at 58 Min. after 2 o'Clock, apparent Time.

The Moon will eclipse the Planet *Mars*, on the 12th of *Feb.* in the Morning. The Immersion will be at 48 Min. after 6; and the Emersion will be at 39 Min. after 7 o'Clock. Some Sort of Telescope must be used to observe it.

The Moon will again eclipse *Aldebaran*, on the 22d of *Oct.* in the Morning. The Immersion will be at 42 Min. after 6; and the Emersion will be at 30 Min. after 7 o'Clock in the Morning. A Telescope will also be proper to observe this.

The next I have to mention, is a very notable Occultation of *Aldebaran*, on *Sunday* the 15th of *Dec.* at Night, or rather on *Monday* Morning the 16th. The Immersion will be (or the said Star is first hid by the Moon) at 12 Min. after 12 at Night; the Emersion, that is, the Star will first appear again, (after being hid by the Moon one Hour and 12 Min.) at 24 Min. after 1 o'Clock on *Monday* Morning. To view this Occultation to the best Advantage, as the Moon will be near the Full, a small Telescope must be used; the Star will be observed to pass by about 2 Min. North of the Moon's Centre, in this Occultation.

The GEORGIAN SIDUS; *or the* NEW PLANET.

For the sake of the Curious, and those who wish to have a View of this Planet through their Telescopes, I shall here mention a very good Opportunity which will happen this Year, of finding that Planet, which will not happen again, in this Part of the Heavens, for more than eighty Years; and that is, that the *Georgian Planet* will come to a Conjunction as seen from the Earth, with that notable fixed Star of the first Magnitude, called *Regulus*, vulgarly the *Lion's Heart*. This Conjunction happens, by my Tables, on the 4th Day of *October*, in the Morning, when they will rise together, about 2 o'Clock the same Morning; at which Time the Difference of their Latitudes will be only about 14 Minutes of a Degree, the new-discovered Planet being only so much to the North of *Regulus*.

Regulus. The Planet is direct in Motion, and moving slowly, at the Rate of 3 Minutes of a Degree in a Day; therefore they may be seen near together for several Days, prior to, and after the 4th of *October*; when its Longitude, as seen from the Earth, will be in 26 Deg. 58 Min. of *Leo*, with 42 Min. of North Latitude. What is rather remarkable, the Planet *Mars* will also be in Conjunction, as seen from the Earth, with *Regulus*, on the 1st of *October*, but will appear about 51 Min. to the North of that Star; he will also be in Conjunction, and pass the *Georgian Planet* to the Eastward, on the same Day, with 36 Min. of Latitude more to the North; *Mars* moves on very fast, and soon leaves them to the West of him.

METEOROLOGICAL OBSERVATIONS.

Having proposed in my last, to enter on a Series of curious and useful Speculation on Evaporation, Rain, Clouds, Lightening, Thunder, &c. we began with the first of these, viz. Evaporation; we shall now enter upon that of Rain, &c. as far as our Limits will permit. And first, we shall observe, that Water may exist in Air in three different States; in a State of perfect Solution, when the Air will be clear, dry, and heavy, and its Powers of Solution still active; in a State of beginning Precipitation, when it becomes moist and foggy its Powers of Solution are diminished, and it becomes lighter in Proportion as its Water is deposited; and also, when by a more slow Process, when the dissolved Water falls in a drizling Rain, or by a sudden Process, when it descends in brisk Rain. And I rather think, and it seems very probable, that the Causes of Rain are also owing to the Loss of Electricity in the Vapors whereof the Clouds are formed. Several learned Men, in the Progress of this Part of Philosophical Science, have all considered Rain as an electrical Phenomenon: or, at least, they have supposed, that the Powers of Electricity may concur with other Causes in producing it; such as the Influences of the Planets, &c. on the Atmosphere, together with their Influence in different Positions, do not a little contribute, as we have of late Years been endeavouring to prove, by pointing out particular Times in each Month of the Year, when we expected Rain or Snow, more or less, within the Compass of three Days, deduced from Astrological and Philosophical Rules and Calculations, which we submitted, and do still submit, to the Observation and Speculation of the Curious; as well as for the Use and Benefit of the Grazier, Farmer, and Husbandman, to be classed and used with a good Barometer or Weather-Glass, to which this Almanack is intended as a very necessary and useful Companion. In the Year 1791, I named

named 46 Times in the different Months, for Rain or Snow, as with us there were only 8 Failures out of that Number: The Things I mean to purſue and improve for the Benefit of my Countrymen; but, as a Caution, they muſt not expect to find the ſame in any other Almanack, but this which is printed for the *Stationer's Company* of *London*. But to return, *Signior Baccari* whoſe Obſervations on the general State of Electricity in the Atmoſphere have been more extenſive and accurate than thoſe of any other Perſon, reckons Rain, Hail, and Snow, among the Effects of a moderate Electricity in the Atmoſphere. Clouds that bring Rain, he thinks, are produced in the ſame Manner as Thunder Clouds, only by a moderate Electricity. He notes ſeveral Circumſtances attending Rain without Lightning, which render it probable, that it is produced by the ſame Cauſe; for Light has been ſeen among the Clouds by Night in rainy Weather, and even by Day, rainy Clouds are ſometimes ſeen to have a Brightneſs evidently independent of the Sun. He ſuppoſes that previous to Rain, a Quantity of Electric Matter eſcapes out of the Earth, in ſome Place where there was a Redundancy of it; and in its Aſcent to the higher Regions of the Air, collects and conducts into its Path a great Quantity of Vapors. The ſame Cauſe that collects, will condenſe them more and more, till in the Places of the neareſt Intervals, they come in Contact, ſo as to form ſmall Drops; which, uniting with others as they fall, come down in Rain. As a Proof of this, I remember ſeveral Experiments, made by Dr. *Dobſon*, of *Liverpool*, where it appears, that the Quantity of Rain received in a Veſſel placed on the Ground exceeded that received by another of the ſame Dimenſions 18 Yards higher more than one-third, and leſs than one-half. The Rain will be heavier in Proportion as the Electricity is more vigorous, and the Cloud approaches more nearly to a Thunder Cloud. In this Manner he ſuppoſes, the Clouds that bring Rain, diſcharge themſelves from over thoſe Parts of the Earth which abound with Electric Fire, to thoſe Parts that are exhauſted of it; and by letting fall their Rain, reſtore the Equilibrium between them. Hence perhaps, upon this Principle, we in a great Meaſure may account for the different Motions of Showers of Rain which we often obſerve in the Summer Months. [*To be continued.*]

Judicium Aſtrologicum, pro Anno 1793.

On, *An Aſtrological Judgment on the Influence of the Planets Eclipſes, &c. with Reſpect to Mundane Affairs.*

HAVING noticed in my two laſt Almanacks the ſeveral remarkable Oppoſitions of *Jupiter* and *Saturn*, which took Place

Place during the two last Years, together with the Influence of these notable Configurations of the Planets, both with respect to the State of the Air, as well as to Mundane Affairs; wherein we mentioned that these Oppositions would cause by their Influence much Trouble and Disturbance about Religion, &c. and would also much afflict the noble House of *Austria*. The Truth of this has been manifest both by the late dreadful Riots at *Birmingham*, and by the remarkable and sudden Death of the late Emperor of *Germany*. We also observed that the Power and Influence of these Oppositions might involve some Part of *Austria*, or its Arch-duke, into Broils and Contentions with some Neighbour, King, or Prince; but at the same Time they did not signify the Extirpation of the *Austrian* Power I shall not now again repeat the particular Effects of these Oppositions, but refer my Readers to my two last Almanacks for further Information respecting them; but I shall only observe, that I begin my Judgments therefrom as a proper Basis of future Predictions, considered with the remarkable Configurations of the Planets, Eclipses, and other stellary Influx of the present Year. The first grand Configuration of the Planets was the Opposition of *Jupiter* and *Saturn*, which was celebrated in the Signs ♎ and ♑, the 7th of *December*, 1790, and from that Time they have been within Orbs and repeated Oppositions until the End of the Year 1792. From hence we infer, that Divine Providence has ordained some certain Kingdom or Kingdoms to great Troubles, if not an utter Destruction, or new Modification of their Constitution; for that Nation or People, whosoever they be, shall suffer many strange and admirable Mutations, Sorrows, and Miseries; and these Events shall first begin from the Tyranny of their Prince or Princes. Disturbances threaten the *German*, *Turkish*, *Swedish*, and *Tartarian* Empires; and there is some Danger of the Breach of Peace, or some under-hand Dealing of the *Turks* towards the *Germans* or *Persians*. I am also fearful of Sickness, or some other Troubles in *Ireland*, as also in *Poland*; and last of all between the *French* Nation and ——, during the Course of this Year.

There are many significant Stanzas amongst the Prophecies

phecies of NOSTRADAMUS, which ſeem to concern and point at theſe Times, and evidently to declare many ſtrange and wonderful Things about to happen in divers Parts of *Europe* and *Aſia*; the following remarkable one, which is fulfilling now or near theſe Times, I give you in *Engliſh*.

A Barbarian Fight in the black Corner,
Blood ſhall be ſpilt, Dalmatia *ſhall tremble for Fear,*
Great Iſmael *ſhall ſet up his Promontory,*
Frogs ſhall tremble, Portugal *ſhall bring Succour.*

EXPLANATION.

This Prophecy foretelleth divers Accidents in ſeveral Places, without Determination of any preciſe Time: As, for Example, I underſtand by that *barbarian Conflict near the Black Corner*, to be ſome famous Battle among the Infidels themſelves, ſome where about the *Black Sea*. Then he ſaith, *That Abundance of Blood ſhall be ſpilt, and* Dalmatia *ſhall tremble!* which is a Province belonging to the *Venetians*, and bordering upon *Grecia*. By great *Iſmael* he underſtandeth the great Sophy of *Perſia*, whoſe Name hath been often ſo. By the Frogs it is not eaſy to know whether he meaneth *France* or *Spain*, for both abound in that Kind of Animals.

The following HIEROGLYPHIC denotes, among other Things, the Proſperity and Harmony of *Britain*:

bſervations of the Influence of the PLANETS *at the Four Quarters of the Year.*

f the BRUMAL, *or* WINTER QUARTER.

THIS Quarter maketh its Entrance at ſuch Time as our earthly Globe, by its Circumrotation, hath volved it-f to the greateſt Inclination, whereby we being fartheſt fleeted from the Sun's Rays, receive leaſt Light, and uſes our ſhorteſt Day and longeſt Night; or, according Appearance, when the Sun enters the firſt Point of the ropical Sign *Capricorn*; which, either Way taken, falls on *Friday* the 21ſt of *December*, 1792, at 35 Min. paſt in the Morning, at which time 22 Deg. of ♋ are on e Med. Cœli, and 17 Deg. of ♎ aſcends the eaſtern orizon. Now all the Planets are ſubterranean, or under e Earth, except ♄, who is poſited upon the Cuſp of the h, juſt ſetting in the Weſt. The ☽ in the 6th, ap-ying to a ☌ of ♄ in ♈; ☿ and ♀ in the 4th, nearly ☌ in ♒; from whence I infer that the Weather, this uarter, is likely to be various, with much wet or Snow, gh Winds, Weſterly, and South-Weſt, with a cold arp Air, &c. of which ſee more in the Calendar Part. to Mundane Affairs, they will be attended with very eat Councils and Conſultations, and ſuch as may ſur-ize the Spirits of ſome Perſons in our own Nation, but ope to the great Satisfaction of the major Part of the ngdom in general; for, without all Doubt, I have aſon rationally to conjecture from particular Influences the Planets, that the Actions and Deſigns now on Foot, th in our own Nation, and divers other Parts of *Europe*, he French Nation in particular) will be very eminent, d carried on and proſecuted with Vigour and great Se-cy, or as much as poſſible, and no leſs Prudence by the ſt political and wiſe Senators of all *Europe*. Time muſt oduce the Particulars; and I have Reaſon to hope our n Nation will abundantly flouriſh. The Motions and fluences of the Stars are acted by the Command of an ernal Decree, which by Time and Order gradually nes to Perfection, and performs the Work the great God s ordained them for. In this Quarter there alſo happens iſible Eclipſe of the Moon, in the 8th Deg. of ♍, wherein

wherein ☿ beareth Rule. This Eclipse denotes quick and crafty Actions on the Stage of the World.

A SCHEME *of the Grand Radix of the* YEAR'S *Revolution; Or, the* SUN'S *Ingress into* ARIES. 1793

The SPRING QUARTER

ACcording to exact Calculation, commences *March* the 20th, at 8 Min. after 3 in the Morning, at which Time the Sun enters the Vernal and Equinoctial Sign *Aries*, when the Heavens appear as they are delineated in the aforewritten Scheme. At the writing of this we are at Peace with all *Europe*, which God grant long to continue. The Conjunction of the two malevolent Planets now approaching, portends great Contrariety in Mens Judgments and Councils; yea, even in the grand Councils of some Nations and Commonwealth; the Sign in which this ☌ happens is *Taurus*, and it is accounted the Horoscope of *Russia*, *Sweden*, *Poland*, and *Ireland*; therefore these Places will be eminently concerned in the Effect thereof. The Affairs of *Italy* are in Confusion; some new Prince or Governor appears in these Parts—What if a new Pope?—In our own Country, the Husbandman meets Encouragement for his Pains in following his Vocation; finds no hard

Seaſon to contradict his Hopes, the Earth yielding her Increaſe happily, and he may expect Plenty of Hay, &c. and all other Things which the Spring affords.

The SUMMER QUARTER.

THIS Quarter commenceth, according to aſtronomical Computation, on *Friday, June* 21ſt, at 10 Min. paſt one in the Morning; when the Sun enters the firſt Scruple of the tropical Sign *Cancer*; at which Time 9 Deg. of ♉ aſcend the Horizon, and 16 Deg. of ♍ culminate. In this tropical Figure the ☽ is in the 7th, in ♂ with ♃, ab ☌ of ♄ et ☿; ♂ and ☿ are in ♌ in the 2d, and ♄ on the Cuſp of the Aſcendant. This Poſition of ♄ cauſeth cold and dry Diſeaſes, proceeding from Melancholy mixed with tough Phlegm, cauſing Obſtructions and Indigeſtions in the Stomach, Heavineſs in the Head, and Windineſs in the Bowels, &c the *Cure* of which muſt be left to the Care of learned and able Phyſicians; and for the Weather, conſult the Calendar Part. The Solar Eclipſe, that happens on the 5th of *September*, will excite Men to much Subtility and Policy in all their Actions; portends the Death or miſerable State of ſome Prince, tempeſtuous Winds, Shipwrecks, and the like; it alſo denotes great robbing both by Sea and Land, alſo Earthquakes in divers Parts.

Of the SUN's Ingreſs into LIBRA; or, the AUTUMNAL QUARTER,

WHICH this Year begins on *Sunday* the 22d of *Sept.* at 58 Min. paſt 2 in the Afternoon; at which Time we have 17 Deg. of ♏ culminating, and 11 Deg. of ♍ aſcending on the Cuſp of the Eaſt; the Moon, ad ☌ of ♄, et □ of ☿, et □ of ♂, et ☌ of ♃; the laſt of theſe Planets is poſited in the Med. Cœli; hence we may expect to hear of many raſh Actions of the People in general both with reſpect to Religion and other Matters, who will, upon the leaſt Occaſion, launch out into Paſſion and great Contention, in many Places and Parts of Europe. Some of the Borders or Frontiers of *France* may be loaded with Martial Evils; and a reſtleſs and deſpotic Prince is under Temptation, to form ſome ill Deſigns againſt a Neighbouring Power; for other Particulars, ſee the Monthly Obſervations.

FINIS.

Merlinus Liberatus.

BEING AN

ALMANACK

For the Year of our Redemption,

1793,

Being the Firſt after Biſſextile, or Leap-Year;

And from the Creation of the World, according to the beſt Hiſtory, 5740,

And the 104th of our Deliverance by *K. William*

From Popery and Arbitrary Government;

But the 98th from the

Horrid, Popiſh, Jacobite Plot.

Wherein are contained all Things fitting and uſeful for ſuch a Work; as an Ephemeris of the daily Motions of the Planets, with their various Configurations, Aſpects, Conjunctions, Lunations, Eclipſes, Aſtronomical, Aſtrological, Meteorological Obſervations, the Riſing and Setting of the Sun, Moon, Planets, and fixed Stars, illuſtrated with Tables of the Tides, Terms, and daily Equation of Clocks, Length and Break, Increaſe and Decreaſe of Days, Semidiurnal and Seminocturnal Arches for ſeveral Latitudes, a Chronology, Remarks on the Diviſions of the Heavens, with Judgments of the Eclipſes and Seaſons, handled according to the Rules of the Ptolomean Aſtrology, with many other Things relating to the Truth of Aſtrology. And will equally ſerve alſo for either *Parker*'s or *Saunders*'s Almanack, as it contains moſt of the uſeful Parts of thoſe other two Works, and *White*'s Ephemeris contains the reſt.

Calculated for the Meridian of LON

By JOHN PARTRIDGE.

——— *Etiam Mortuus loquitur.*

LONDON.

Printed for the Company of STATIONERS;

And Sold by *Robert Horsfield*, at their Hall, in *Ludgate Street.*

[Price ſtitched Ten Pence.]

A Table of the Common Notes, and Moveable Feasts, for the Year of our Lord 1793.

Golden Number	8	Easter Sunday	Mar. 31
Epact	17	Rogation Sunday	May 5
Dominical Letter	F	Ascension Day	May 9
Cycle of the Sun	10	Whit Sunday	May 19
Roman Indiction	11	Trinity Sunday	May 26
Number of Direction	10	Sundays after Trinity	26
Sundays after Epiphany	2	Advent Sunday	Dec. 1
Septuagesima Sund.	Jan. 27	Year of the Julian Per.	6506
Ash Wednesday,	Feb. 13	Year of the Dionysian	117

A Table of the 12 Signs, 7 Planets, and Aspects.

♈	Aries, *Head and Face.*	♄	Saturn.
♉	Taurus, *Neck and Throat.*	♃	Jupiter.
♊	Gemini, *Arms and Shoulders.*	♂	Mars.
♋	Cancer, *Breast and Stomach.*	☉	Sol, or the Sun.
♌	Leo, *Heart and Back.*	♀	Venus.
♍	Virgo, *Bowels and Belly.*	☿	Mercury.
♎	Libra, *Reins and Loins.*	☽	Luna, the Moon.
♏	Scorpio, *Secret Members.*	☊	Dragon's Head.
♐	Sagittarius, *Hips and Thighs.*	☋	Dragon's Tail.
♑	Capricorn, *Knees and Hams.*	⊕	Part of Fortune.
♒	Aquarius, *Legs and Ancles.*	⊖	Tellus, or Earth.
♓	Pisces, *Feet and Toes.*		

☌ Conjunction, *In one Sign and Degree.*
✱ Sextile, *is 2 Signs, or 60 Degrees.*
□ Square or Quartile, *is 3 Signs, or 90 Degrees.*
△ Trine, *is 4 Signs, or 120 Degrees.*
☍ Opposition, *is 6 Signs, or 180 Degrees.*

♈ ♌ ♐ Hot and dry, Fiery	♉ ♍ ♑ Cold & dry, Earthy
♊ ♎ ♒ Hot and moist, Airy	♋ ♏ ♓ Cold & moist, Watery
♈ ♌ ♐ ♊ ♎ ♒ Diur. Mascul.	♉ ♍ ♑ ♋ ♏ ♓ Noct. Femin.
♈ ♋ ♎ ♑ Cardinal & Movea.	♉ ♌ ♏ ♒ Fixed Signs
♊ ♍ ♐ ♓ Common Signs	♋ ♏ ♓ Fruitful Signs
♊ ♌ ♏ are Barren	♐ ♊ ♓ Bicorporeal

Kings Names.	*Reigns began.*
William Conq	Oct. 14, 1066
William Rufus	Sept. 9, 1087
Henry 1. -	Aug. 2, 1100
Stephen - -	Dec. 1, 1135
Henry 2. Rosam.	Oct. 25, 1154
Richard 1. -	July 6, 1189
John - - -	April 6, 1199
Henry 3. -	Oct. 19, 1216
Edward 1. -	Nov. 16, 1272
Edward 2. -	July 7, 1307
Edward 3. -	Jan. 25, 1327
Ric. 2. W. Tyler	June 21, 1377
Henry 4. - -	Sept. 29, 1399
Henry 5. -	Mar. 20, 1413
Henry 6. - -	Aug. 31, 1422
Ed. 4. J. Shore	Mar. 4, 1461
Edward 5. -	April 9, 1483
Richard 3. -	June 22, 1483
Henry 7. - -	Aug. 22, 1485
Henry 8. -	Apr. 22, 1509
Edward 6. -	Jan. 28, 1547
Mary 1. - -	July 6, 1553
Elizabeth -	Nov. 17, 1558
James 1. - -	Mar. 24, 1603
Charles 1. -	Mar. 27, 1625
Charles 2. -	Jan. 30, 1649
James 2. - -	Feb. 6, 1685
Will. 3. & M. 2.	Feb. 13, 1689
Anne - - -	Mar. 8, 1702
George 1. -	Aug. 1, 1714
George 2. -	June 11, 1727
George 3. -	Oct. 25, 1760

The direct Lineal Deſcent of His Majeſty K. George III.

Henry II. K. of *England*, ha
Maud mar. *Hen. the Lion*, I
of *Bavaria* and *Saxony*, ha
Wil. of *Lun.* mar. *Helena*, I
of *Worldemer*, K. of *Den.* ha
Otho D. of *Brunſ.* and *Lune*
——— had ———
Albert the Great D. of *Brun*
——— had ———
Albert the Fat D. of *Brun*
——— had ———
Magnus D. of *Brunſwic*
——— had ———
Mag. Torquat. D. of *Bru.* & *Lun*
——— had ———
Bernard D. of *Brun.* & *Lun*
——— had ———
Frederick Duke of *Lunenb*
——— had ———
Otho the Great D. of *Lunenb*
——— had ———
Henry Duke of *Lunen.* had
Erneſt Duke of *Lunenb.* had
Wil. D. of *Lunen.* *Zel.* had
Elizabeth, mar. *Fred.* K. of
Bohemia, had *Geo.* P. of *Callenbar* and D. of *Hanover*, had *Sophia*, mar. *Erneſt Auguſtus* Biſhop of *Oſnaburgh*, and Elector of *Brunſwick Lunenburgh*, had *George*, by the Grace of *God*, King of *Great-Britain*, &c. who had *George* II. who had *Fred.* Pr. of *Wales*, who had *George* III. his preſent Majeſty, whom God preſerve.

A Table of the Moon's Age for every Day throughout the Year 1793, whereby, with the Help of the next General Tide Table, the Time of High Water at all the Places mentioned above it, are shewn by Inspection.

An Explanation of this and the following Table:

First find the Month on the Head of the Table, and the Day in the first Column on the left Hand, and in the Angle of meeting you have the Day of the Moon's Age, with which enter the following Table, and find your said Number in the left Hand Column, and over against it in the other Column is the Time of High Water at all the Places above mentioned, by Inspection.—*Example, Jan.* 1st I find the Moon to be 19 Days old, and over against 19 in the 1st Column I find 6 h. 12 m. in the 2d Column, 4 h. 42 m. in the 3d; which are the Times of High Water at all those Places mentioned above in the 2d and 3d Columns. *Et sic de cæteris.*

Month Day.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
1	19	20	19	20	21	22	23	24	26	26	27	28												
2	20	21	20	21	22	23	24	25	27	27	28	29	N	1	2	3	4	5	6	7	8	9	10	11
3	21	22	21	22	23	24	25	26	28	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13
4	22	23	22	23	24	25	26	27	29	29	N	2	3	4	5	6	7	8	9	10	11	12	13	F
5	23	24	23	24	25	26	27	28	N	N	1	3	4	5	6	7	8	9	10	11	12	13	F	15
6	24	25	24	25	26	27	28	N	1	1	2	4	5	6	7	8	9	10	11	12	13	F	15	16
7	25	26	25	26	27	28	29	1	2	2	3	5	6	7	8	9	10	11	12	13	F	15	16	17
8	26	27	26	27	28	N	N	2	3	3	4	6	7	8	9	10	11	12	13	F	15	16	17	18
9	27	28	27	28	29	1	1	3	4	4	5	7	8	9	10	11	12	13	F	15	16	17	18	19
10	28	N	28	N	1	2	2	4	5	5	6	8	9	10	11	12	13	F	15	16	17	18	19	20
11	29	1	29	1	1	3	3	5	6	6	7	9	10	11	12	13	F	15	16	17	18	19	20	21
12	N	2	N	2	2	4	4	6	7	7	8	10	11	12	13	F	15	16	17	18	19	20	21	22
13	1	3	1	3	3	5	5	7	8	8	9	11	12	13	F	15	16	17	18	19	20	21	22	23
14	2	4	2	4	4	6	6	8	9	9	10	12	13	F	15	16	17	18	19	20	21	22	23	24
15	3	5	3	5	5	7	7	9	10	10	11	13	F	15	16	17	18	19	20	21	22	23	24	25
16	4	6	4	6	6	8	8	10	11	11	12	F	15	16	17	18	19	20	21	22	23	24	25	26
17	5	7	5	7	7	9	9	11	12	12	13	15	16	17	18	19	20	21	22	23	24	25	26	27
18	6	8	6	8	8	10	10	1	13	13	F	16	17	18	19	20	21	22	23	24	25	26	27	28
19	7	9	7	9	9	11	11	13	F	F	15	17	18	19	20	21	22	23	24	25	26	27	28	
20	8	10	8	10	10	12	12	14	15	15	16	18	19	20	21	22	23	24	25	26	27	28		
21	9	11	9	11	11	13	13	F	16	16	17	19	20	21	22	23	24	25	26	27	28			
22	10	12	10	12	12	14	14	16	17	17	18	20	21	22	23	24	25	26	27	28				
23	11	13	11	13	13	F	F	17	18	18	19	21	22	23	24	25	26	27	28					
24	12	14	12	14	14	16	16	18	19	19	20	22	23	24	25	26	27	28						
25	13	F	13	15	F	17	17	19	20	20	21	23	24	25	26	27	28							
26	14	16	14	F	16	18	18	20	21	21	22	24	25	26	27	28								
27	F	17	F	17	17	19	19	21	22	22	23	25	26	27	28									
28	16	18	16	18	18	20	20	22	23	23	24	26	27	28										
29	17		17	19	19	21	21	23	24	24	25	27	28											
30	18		18	20	20	22	22	24	25	25	26	28												
31	19		19		21		23	25		26		28												

TIDE TABLE.

A general Tide-Table, shewing the Time of High Wat at all the Places herein mentioned, *viz.*

Enter this Col. with the Moon's Age, and over against it you have the Time of High Water at the Places following.		*Lond. Tinm. Hartl. Amster. Dort, Whitby, Galacia, Gasc West of Irel. Britain at Groin, Roterd. and Robin H. Bay.*		*Downs, Gravesf. Ramk. Guernf. Rumn. Thanet, Scilly half Tide, Senny H. Zenn at Blacken N. Cape, bet. Cal. and Dow.*		*Plym. Ramf. Sev. Humb. Foy, Torb. Newc. Falm. Dartm. Lizard, St. Maloes, at the Spurn, betw. Scilly and the Liz.*		*Hull, Lynn, Weym Fosd. Antw. St. Dav. Holmes of Bristol, Lund. St. Paul's Salcom, without Ushant, Waterf. half Tide*		*Boston, Bristol, Fouln Startp. Lanion. Alsbor. Weym. Key, Lime, before St. Nicholas, Sedmouth in the Channel, Foy.*		*Dover, Harw. Bullein. Yarm Road, Calice Road, St. John de Luca, S. Forel, St. Helens, Coast of Norm. and Picardy.*		*Portf. Quimb. Southa. Leith. Isle of Wight, Dunk. Kentish Knock, Beachy, Canado, C. of Fland. Spiers Dover Pier.*		*Portl. Peter-port, Hague, Dubl. Harf. Lambay, Magnus, Sound, Comb without the Casketts, Macness, Milford, Texel*	
☽'s	A	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	16	3	48	2	18	6	3	6	48	7	33	11	18	12	48	9	3
2	17	4	36	3	6	6	51	7	36	8	21	12	6	1	36	9	51
3	18	5	24	3	54	7	39	8	24	9	9	12	54	2	24	10	39
4	19	6	12	4	42	8	27	9	12	9	57	1	42	3	12	11	27
5	20	7	0	5	30	9	15	10	0	10	45	2	30	4	0	12	15
6	21	7	48	6	18	10	3	10	48	11	33	3	18	4	48	1	3
7	22	8	36	7	6	10	51	11	36	12	21	4	6	5	36	1	51
8	23	9	24	7	54	11	39	12	24	1	9	4	54	6	24	2	39
9	24	10	12	8	42	12	27	1	12	1	57	5	42	7	12	3	27
10	25	11	0	9	30	1	15	2	0	2	45	6	30	8	0	4	15
11	26	11	48	10	18	2	3	2	48	3	33	7	18	8	48	5	3
12	27	12	36	11	6	2	51	3	36	4	21	8	6	9	36	5	51
13	28	1	24	11	54	3	39	4	24	5	9	8	54	10	24	6	39
14	29	2	12	12	42	4	27	5	12	5	57	9	42	11	12	7	27
15	30	3	0	1	30	5	15	6	0	6	45	10	30	12	0	8	15

ROYAL FAMILY, &c.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III.	June 4, 1738	Prince Aug. Fred.	Jan. 27, 1773
Prince of Wales,	Aug. 12, 1762	Prince Adolph. Fred.	Feb. 24, 1774
Prince Frederick,	Aug. 16, 1763	Princess Mary,	April 25, 1776
Prince Wm. Henry,	Aug. 21, 1765	Princess Sophia,	Nov. 3, 1777
Prs. Cha. Aug. Mat.	Sept. 29, 1766	Princess Amelia,	Aug. 7, 1783
Prince Edward,	Nov. 2, 1767	Queen Charlotte,	May 19, 1744
Prs. Augusta Sophia,	Nov. 8, 1768	Prs. Augusta of Brun.	Aug. 11, 1737
Prs. Elizabeth,	May 22, 1770	Duke of Gloucester,	Nov. 25, 1743
Prince Ernest Augustus,	June 5, 1771		

SOVEREIGNS of EUROPE, their Accession, &c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
France	Lewis XVI.	Aug. 23, 1754	May 10, 1774
Russia	Catharine II.	May 2, 1729	July 9, 1762
Spain	Charles IV.	Nov. 11, 1748	Dec. 1788
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Prussia	Frederic IV.	Sept. 25, 1744	Aug. 17, 1786
Denmark & Norway	Christian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Gustavus IV.	Nov. 1, 1778	Mar. 29, 1792
Germany	Francis II.	Feb. 12, 1767	Mar. 1, 1792
Poland	Stanislaus III.	Jan. 17, 1732	Nov. 25, 1764
Holland	William V.	March 8, 1748	Oct. 11, 1751
Popedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789

The FULL WEIGHT of the COINS, with the LEAST WEIGHT allowed to pass of the Gold Coin.

GOLD.	Wt. allowed. dwt.	gr.	Full Wt. dwt.	gr.
Guinea	5	8	5	$9\frac{30}{89}$
Half Guinea,	2	16	2	$16\frac{61}{89}$
Quarter Guin.	1	8	1	$8\frac{32}{89}$

SILVER.	Full Wt. dwt.	gr.
A Crown,	19	$8\frac{16}{31}$
Half Crown,	9	$16\frac{8}{31}$
Shilling,	3	$20\frac{28}{31}$
Six Pence,	1	$22\frac{14}{31}$

According to the above proportions it appears, that the value of a *lb.* of silver is 6*s.* or 3*l.* 2*s.* and of a *lb.* of gold is $44\frac{1}{2}$ guineas, or 46*l.* 14*s.* 6*d.* Also that the *oz.* of silver is 5*s.* 2*d.* and the *oz.* of gold 3*l.* 17*s.* $10\frac{1}{2}$*d.* So that the value of the standard gold is 14 times that of the silver, and 14th more.

A TABLE of TERMS and RETURNS for 179

Hilary Term begins *January* 23, ends *February* 12.

Returns or Eſſoign Days.	Exc.	Ret.	App.	W.
In eight Days of St. *Hilary*, - - *January* 20	21	22	23	*Wed*
In fifteen Days of St. *Hilary*, - - - 27	28	29	30	*Wed*
On the Morrow of the Purif. of bl. V. *M. Feb.* 3	4	5	6	*Wed*
In eight Days of the Purif. of bl. V. *Mary*, 9	10	11	12	*Tuſ*

Eaſter Term begins *April* 17, ends *May* 13.

In 15 Days of *Eaſter*, - - - - *April* 14	15	16	17	*Wedn*
From the Day of *Eaſter* in 3 Weeks, - - 21	22	23	24	*Wedn*
From the Day of *Eaſter* in 1 Month, - - 28	29	30	*M* 1	*Wedn*
From the Day of *Eaſter* in 5 Weeks, *May* 5	6	7	8	*Wedn*
On the Morrow of the *Aſcenſion*, - - - 10	11	12	13	*Mond*

Trinity Term begins *May* 31, ends *June* 19.

On the Morrow of the holy *Trinity*, *May* 27	28	29	30	*Frid*
In eight Days of the holy *Trinity*, *June* 2	3	4	5	*Wedn*
In fifteen Days of the holy *Trinity* - - 9	10	11	12	*Wedn*
From the Day of the holy *Trinity* in 3 Weeks, 16	17	18	19	*Wedn*

Michaelmas Term begins *Nov.* 6, ends *Nov.* 28.

On the Morrow of *All Souls*, - - - *Nov.* 3	4	5	6	*Wedn*
On the Morrow of St. *Martin*, - - - - 12	13	14	15	*Frid*
In eight Days of St. *Martin*, - - - - 18	19	20	21	*Thur*
In fifteen Days of St. *Martin*, - - - - 25	26	27	28	*Thur*

N. B. No Sittings in *Weſtminſter-Hall* on the 2d of *February*, *Aſcenſion Day*, and *Midſummer Day*.

The Exchequer opens Eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, That the firſt and laſt Days of every Term, are the firſt and laſt Days of Appearance.

OXFORD and CAMBRIDGE TERMS.

OXFORD TERMS.

Lent Term - -	begins *January* 14, - -	ends *Mar.* 23.
Eaſter Term -	begins *April* 10, - - -	ends *May* 16.
Trinity Term -	begins *May* 29, - - -	ends *July* 13.
Michaelmas Term,	begins *October* 10 - - -	ends *Dec.* 17.

The Act is *July* 8.

CAMBRIDGE TERMS.

Lent Term - -	begins *January* 13, - -	ends *Mar.* 22.
Eaſter Term - -	begins *April* 10, - - -	ends *July* 5.
Michaelmas Term	begins *October* 10, - -	ends *Dec.* 16.

The Commencement will be *July* 2.

M D	♄ ♈	♃ ♏	☽ ♌
1	25	24	♏
6	25	25	18
11	26	26	18
16	26	27	18
21	26	28	18
26	26	28	17

Janus, on Boreas Wings, with rapid Pace
Now comes; his hoary Head and marbled Face
Terrific arm'd—his Breath a chilling Blaſt,
At which all Vegetation ſtands aghaſt!
A rigid Mantle clothes the neighbouring Plains,
And Northern Seas are bound in Icy Chains.

M D	W D	Sundays and Remark. Days.	☉ long. ° ′	☽ long. ° ′	♂ ♒	♀ ♒	☿ ♓	Aſpects and Weather.
1	T	Circumciſion	11 ♑ 39	26 ♌ 43	12	18	12	♂ ☉ ☿
2	W		12 41	8 ♍ 35	13	19	10	*Some cold rain*
3	T	Sun riſes 8. 3.	13 42	20 35	14	20	9	*or ſnow begins*
4	F		14 43	2 ♎ 47	15	21	8	*the new year.*
5	S	Old Chriſt. day	15 44	15 16	16	23	7	
6	F	Epiphany.	16 45	28 7	16	24	6	Twelfth Day.
7	M	Plough Monday	17 46	11 ♍ 26	17	25	5	✱ ♄ ♀, □ ♃ ♀
8	T	Lucian.	18 48	25 14	18	26	4	
9	W		19 48	9 ♐ 32	19	28	4	*Cloudy thick*
10	T	Sun ſets 4. 3.	20 50	24 17	20	29	3	*miſty air.*
11	F		21 51	9 ♑ 23	20	30	3	
12	S	Old N. Yrs. Day	22 52	24 40	21	♓	D	
13	F	1 S. after Epiph.	23 53	9 ♒ 58	22	2	3	Hil. & C. T. b.
14	M	Oxf. T. beg.	24 55	25 4	23	4	3	□ ☉ ♄, ✱ ♀ ♅
15	T	Sun riſes 7. 51.	25 56	9 ♓ 51	23	5	3	
16	W		26 57	24 14	24	6	4	*Cold and*
17	T	Old Twelfth D.	27 58	8 ♈ 9	25	7	5	*cloudy, if not*
18	F	O. Ch. b. d. k.	28 59	21 39	26	8	5	Priſca, ✱ ♄ ♂
19	S	Sun ſets 4. 14.	0 ♒ 0	4 ♉ 45	27	10	6	
20	F	2 S. after Epiph.	1 1	17 31	27	11	7	Fab. □ ♃ ♂
21	M	Agnes	2 2	30 0	28	12	7	
22	T	Vincent	3 3	12 ♊ 15	29	13	8	*froſt and*
23	W	Hil. Term beg.	4 4	24 22	30	14	9	*ſnow.*
24	T		5 5	6 ♋ 21	♓	16	10	
25	F	Conv. St. Paul	6 6	18 15	1	17	11	
26	S	Sun riſes 7, 36.	7 7	0 ♌ 6	2	18	12	*Temperate*
27	F	Septua. Pr. Aug.	Fr. b. 11	56	3	19	14	*weather, and*
28	M		9 9	23 46	4	20	15	*more agreeable*
29	T	Sun ſets 4, 29.	10 10	5 ♍ 39	5	21	16	
30	W	K. Char. I. mart.	11 11	17 37	6	23	17	*Rather froſty.*
31	T		12 11	29 42	6	24	18	

M D	Jupiter South	Venus South
1	8m 39	2 a 33
6	8 21	2 35
11	8 3	2 36
16	7 45	2 38
21	7 27	2 39
26	7 8	2 41

Last Quarter 5th Day at 1 Afternoon.
New Moon 12th Day at 9 Morning.
First Quarter 19th Day at 2 Morning.
Full Moon 27th Day at 5 Morning.
1st Day ♄ So. 6 a 46, ♂ 2 a 10, ☿ 0 a 9.
16th Day ♄ So. 5 42, ♂ 1 52, ☿ 10m 22

M D	Lunar Aspects. ☉	♄	♅	♂	♀	☿	Clock bef. ☉	Moon South	☽ rises & sets	Observations.
1							4 22	2m 46	8a 30	*Recede a malo, et*
2	△					△	4 5c	3 30	9 32	*fac bonum, require*
3			*				5 17	4 13	10 35	*pacem, et sectare*
4						□	5 45	4 56	11 41	*eam.* Pſalm xxxiv.
5	□	8		△	△		6 11	5 41	morn	15.
F						*	6 38	6 27	0 48	
7	*			□			7 3	7 15	1 57	The face of ſuch
8			6		□		7 29	8 7	3 8	things as are now in
9			○	*			7 54	9 3	4 21	action in Europe,
10		△			*	6	8 18	10 2	5 31	ſeems to appear at
11	6					14	8 41	11 3	6 35	the beginning of the
12	21	□	*				9 4	oa 5	☽ ſets	year with a very
F				6			9 27	1 6	6a 1	good proſpect: I
14		*	□	18	6	*	9 48	2 4	7 21	hope it may con-
15					13		10 10	2 59	8 40	tinue, that we may
16	*		△			□	10 30	3 52	9 57	long have peace and
17							10 49	4 42	11 10	tranquillity in Eng-
18	□	6		*			11 8	5 30	morn	land.
19		7			*	△	11 26	6 18	0 20	
F			8	□			11 43	7 6	1 28	
21	△						12 0	7 53	2 33	
22					□		12 16	8 41	3 33	
23		*		△			12 30	9 29	4 30	
24					△	8	12 44	10 17	5 23	
25		□	△				12 58	11 4	6 7	
26	8						13 10	11 50	6 46	
F	16						13 22	morn	☽ rises	
28		△	□				13 32	0 35	6a 13	
29				8			13 42	1 20	7 14	
30			*		8	△	13 51	2 3	8 17	
31							14 0	2 46	9 22	

10 Arch-bp. Land beheaded 1645
11 Sir Hans Sloan died 1752
15 Pondicherry ſurrendered 1760
17 Bat. of Falkirk 1746
20 Firſt Parliam. 1265
24 A great fire at the Cuſtom-h. 1715
28 Hen. VIII. died 1595
29 Chriſtian VII. K. of Denm. b. 1746
31 Guy Faux ex. 1606

February hath XXVIII Days.

M D	♄ ♈	♃ ♍	☽ ♎
1	27	29	♍
6	27	30	17
11	26	♐	16
16	28	1	16
21	28	1	16
26	29	1	16

Dark Clouds, replete with Rain, obſcure the Sky,
Or Storms of Snow from Eaſtern Regions fly:
Winds ride triumphant o'er the briny Deep,
Or with Deſtruction through the Woodlands ſweep.
Now trudging from the Fields with draggled Tails,
The Maids bring Home their frozen milking Pails.

M D	W D	Sundays and Remark. Days.	☉ long ° ′	☽ long ° ′	☿ ♓	♀ ♓	♂ ♒	Aſpects and Weather.
1	F	Sun riſes 7. 26.	13♒12	11♎59	7	25	20	*Somewhat*
2	S	Purif. Candl. D.	14 13	24 30	8	26	21	*unſettled and*
3	S	Sexageſ. Sund.	15 14	7♏19	8	27	22	Blas.
4	M		16 15	20 32	9	28	24	*cloudy.*
5	T	Agatha	17 15	4♐ 9	10	30	25	△ ♃ ♀
6	W		18 16	18 14	11	♈	26	□ ♄ ☿
7	T	Sun ſets 8. 45.	19 17	2♑44	12	2	28	
8	F		20 18	17 36	12	3	29	✱ ♃ ☿
9	S		21 18	2♒43	13	4	♒	*Rough winds,*
10	S	Q. Shrove Sun.	22 19	17 56	14	5	2	*bringing ſome*
11	M	Sun riſes 7. 8.	23 20	3♓ 5	15	7	4	*rain or ſnow.*
12	T	Shrove Tueſday	24 20	18 0	16	8	5	Hil. T. ends
13	W	Aſh Wedneſday	25 21	2♈34	16	9	7	Old Can. Day
14	T	Valentine.	26 21	16 43	17	10	8	*Seaſonable*
15	F	Cam. T. div. ni.	27 22	0♉24	18	11	10	*weather.*
16	S		28 22	13 39	19	12	11	
17	S	Quad. 1. S. in L.	29 23	26 29	19	13	13	
18	M		♓23	9♊ 0	20	15	14	✱☿ ☿, □ ☉ ♃
19	T	Sun ſets 5. 7.	1 24	21 14	21	16	16	
20	W	Ember Week	2 24	3♋16	22	17	18	*Somewhat*
21	T		3 24	15 10	23	18	19	*froſty, with*
22	F	Sun riſes 6. 47.	4 25	27 0	23	19	21	*rain or ſleet.*
23	S		5 25	8♌49	24	20	23	
24	S	2 S. in L. St. Mat.	6 25	20 39	25	21	24	*Rough cold*
25	M	[Pr. A. Fred. b.	7 25	2♍34	26	22	26	
26	T		8 26	14 35	26	23	28	✱ ♄ ☿
27	W		9 26	26 44	27	25	29	*winds, with*
28	T	Sun ſets 5. 24.	10 26	9♎ 2	28	26	♓	□ ♃ ☿
								ſnow or ſleet.

JUPITER will be a Morning Star till May 17; then an Evening Star till December 4; and after that a Morning Star to the end.

M D	Jupiter South.	Venus South.	
1	6 m 46	2 a 40	Last Quarter 4th Day at 4 Morning.
6	6 28	2 41	New Moon 10th Day at 7 Afternoon.
11	6 11	2 42	First Quarter 17th Day at 6 Afternoon.
16	5 53	2 42	Full Moon 25th Day at 11 Night.
21	5 36	2 43	1st Day ♄ So. 4 a 38, ♂ 1 a 33, ☿ 10 m 22,
26	5 18	2 44	16th D. ♄ So. 3 44, ♂ 1 17, ☿ 10 55.

M D	Lunar Aspects: ☉	♄	♅	♂	♀	☿	Clock bef. ☉	Moon South	☽ rise & sets	Observations.
1	△						14 7	3 m 30	10 a 29	I fear there are many dissatisfied people amongst us, who will still endeavour to disturb ours and their own peace. Danger and losses should make us careful. I hope God will bless England with peace and plenty; and make her admirable amongst all her neighbouring nations.
2		8				□	14 14	4 16	11 36	
F	□			△			14 20	5 2	morn	
4			6		△	*	14 25	5 51	0 44	
5			16	□			14 29	6 43	1 53	
6	*	△					14 33	7 38	3 3	
7				*	□		14 36	8 36	4 6	
8		□	*			6	14 38	9 36	5 6	
9				*		17	14 39	10 37	5 57	
F	6	*	□				14 39	11 39	☽ sets	
11	7			6			14 39	0 a 37	6 a 15	
12			△	18			14 38	1 33	7 25	
13					6	*	14 36	2 26	8 43	
14	*	6			10		14 34	3 18	9 58	
15		18				□	14 30	4 8	11 10	
16				*			14 26	4 57	morn	
F	□		8				14 21	5 46	0 18	
18					*	△	14 15	6 35	1 22	
19	△	*		□			14 9	7 24	2 22	
20							14 2	8 12	3 15	
21				△	□		13 55	8 59	4 3	
22		□	△				13 46	9 46	4 44	
23							13 37	10 32	5 20	
F		△	□		△	8	13 28	11 17	5 53	
25	8						13 18	morn.	☽ rise	
26	11						13 7	0 1	6 a 10	
27			*	8			12 56	0 45	7 14	
28							12 44	1 30	8 20	

4 Martinico-fur. 1762
6 Cha. II. died 1685
11 London Bridge burnt 1632
12 Lady Jane Grey beheaded 1554
16 Sir J. Oldcastle burnt 1418
18 Q. Mary behe. 1589
22 Quaker's affirmation accep. 1702
24 Earl Derwentwater behead. 1716
25 Sir Chr. Wren died 1723

VENUS will be a Morning Star till May 27; and afterwards she will be an Evening Star to the end of the year.

March hath XXXI Days.

From Southern Climes the Sun returns in Haſte,
To ſooth the Rigour of each wintry Blaſt.
The ſimple Snow-Drop, Harbinger of Spring,
And Primroſe pale, beneath the Hedges ſpring.
Now crown'd with Leeks, the Welch with hearty Cheer,
Invoke Saint David for a plenteous Year.

M D	♄ ♈	♃ ♐	☽ ♌
1	29	2	♍
6	29	2	15
11	30	2	15
16	♉	2	15
21	1	R	14
26	2	2	14

M D	W D	Sundays and Remark. Days.	☉ long °	☽ long °	♂ ♓	♀ ♈	☿ ♓	Aſpects and Weather.
1	F	David.	11 ♓ 26	21 ♎ 31	29	27	3	
2	S	Chad.	12 26	4 ♍ 14	30	28	5	*Snow or cold*
3	F	3 Sund. in Lent	13 26	17 12	♈	29	7	☌ ♄ ♀
4	M		14 26	0 ♐ 28	1	30	8	*rain.*
5	T	Sun riſes 6. 26	15 26	14 2	2	♉	10	△ ♃ ♂
6	W		16 26	27 55	3	2	12	
7	T	Perpetua.	17 26	12 ♑ 8	3	3	14	*Rather froſty*
8	F		18 26	26 38	4	4	16	*air.*
9	S	Sun ſets 5. 42.	19 26	11 ♒ 22	5	5	18	
10	F	4 Sund. in Lent	20 25	26 14	6	6	20	☌ ☉ ☿
11	M		21 25	11 ♓ 7	6	7	22	
12	T	Gregory M.	22 25	25 52	7	8	24	*Stormy*
13	W		23 25	10 ♈ 24	8	9	26	*weather now*
14	T	Sun riſes 6. 8.	24 25	24 35	9	10	28	*about.*
15	F		25 24	8 ♉ 22	9	11	30	
16	S		26 24	21 44	10	12	♈	△ ♃ ☿
17	F	5 Sun. in Lent	27 23	4 ♊ 41	11	13	4	St. Patrick.
18	M	Edw. K. W. S.	28 23	17 17	12	14	6	
19	T	Sun ſets 6. 2.	29 22	29 33	13	15	8	*More tempe-*
20	W		☊ ♈ 22	11 ♋ 36	13	16	10	*rate and*
21	T	Benedict	1 21	23 30	14	17	12	*pleaſant.*
22	F	Camb. T. ends	2 21	5 ♌ 19	15	18	13	
23	S	Oxf. T. ends	3 20	17 8	16	19	15	☌ ♂ ☿
24	F	Palm Sunday	4 19	29 1	16	20	17	
25	M	An. Lady-day	5 19	11 ♍ 1	17	21	19	*Cold winds,*
26	T	Sun riſes 5, 44.	6 18	23 12	18	22	21	*cloudy, with*
27	W		7 17	5 ♎ 34	19	23	23	*rain or ſleet.*
28	T	Maundy Th.	8 16	18 10	19	24	24	
29	F	Good Friday	9 16	1 ♍ 0	20	25	26	*Stormy.*
30	S	Sun ſets 6. 24	10 15	14 3	21	26	28	
31	F	Eaſter-Day	11 14	27 20	22	26	29	

M D	Jupiter South	Venus South
1	5m 8	2 a 45
6	4 50	2 47
11	4 32	2 48
16	4 14	2 50
23	3 56	2 51
26	3 38	2 52

Last Quarter 5th Day at 3 Afternoon.
New Moon 12th Day at 4 Morning.
First Quarter 19th Day at Noon.
Full Moon 27th Day at 4 Afternoon.
1st Day ♄ So. 2a58, ♂ 1 a 5, ☿ 11m31.
16th Day ♄ So. 1 37, ♂ 0 43, ☿ 0 a 20

M D	Lunar Aspects. ☉	♄	♅	♂	♀	☿	Clock bef. ☉	Moon South	☽ rise & sets	Observations.
1		8			8		12 32	2m 15	9a27	Several reports
2	△					△	12 19	3 0	10 36	are spread abroad
F							12 6	3 49	11 45	concerning some
4			6	△		□	11 52	4 40	morn	matters of conse-
5	□		2				11 38	5 33	0 52	quence lately ma-
6		△		□	△		11 24	6 29	1 58	nifested in some of
7	*					*	11 9	7 27	2 58	the West Indi
8		□	*	*	□		10 54	8 25	3 50	Plantations.
9							10 38	9 23	4 35	There is a noise
F		*	□		*		10 22	10 22	5 14	as if the grand af-
11	6					6	10 6	11 19	5 50	fairs of some king-
12	18		△	6		15	9 50	0a15	☽ sets	doms or countries
13				18			9 33	1 8	7a36	were much out of
14		6					9 16	2 1	8 49	order, especially in
15		10			6		8 59	2 52	9 59	the south-east part
16	*		8		5		8 41	3 43	11 7	of the world; and
F				*		*	8 23	4 33	morn	a secret conspiracy
18	□						8 5	5 23	0 14	miscarries.
19		*				□	7 47	6 12	1 13	
20				□	*		7 29	7 0	2 4	
21	△	□	△				7 11	7 47	2 48	
22				△		△	6 52	8 34	3 25	
23					□		6 33	9 20	4 0	
F		△	□				6 15	10 5	4 30	
25				△			5 56	10 49	4 58	
26			*				5 37	11 33	5 21	
27	8						5 19	morn	☽ rise	
28	4			8		8	5 0	0 19	7a24	
29		8					4 41	1 6	8 34	
30					8		4 23	1 54	9 44	
F			6				4 4	2 44	10 52	

4 Hen. VI. depos. 146
6 First appear. of the Nor. lights 171
8 K. W. III. died 170
9 Rizzio murd. 156
10 Act for build. 50 new churches 171
14 Adm. Byng shot 175
18 Amer. Stamp Act repealed 176
24 Q. Eliz. died 160
27 James I. died 162
28 Tobac. brought to England 158
30 Fred. Pr. of W. died 175

May hath XXXI Days.

Come, lovely May, thou fairest of the Train,
Whose blooming Charms will ease the Lover's Pain.
See, to the Lawns the Country Nymphs now throng,
Or on the Hillocks chant the rural Song.
Damon no more the Lass shall cruel find—
This is the happy Month when Maids are kind.

M D	♄ ♉	♃ ♏	☽ ♌
1	6	29	♍
6	7	29	12
11	7	28	12
16	8	27	11
21	9	27	11
26	9	2[illegible]	11

M D	W D	Sundays and Remark. Days.	☉ long °	′	☽ long. °	′	♂ ♉	♀ ♊	☿ ♉	Aspects and Weather.
1	W	St. Phil. & Jam.	11 ♉	30	19 ♑	18	15	15	2	*Windy*
2	T	Sun rises 4. 34.	12	28	3 ♒	27	15	15	2	*weather*
3	F	Invent. Cross	13	26	17	35	16	15	1	*now about.*
4	S		14	24	1 ♓	43	17	15	1	
5	F	Rogation Sund.	15	22	15	48	17	R	1	
6	M	J. Ev. A.P.L.	16	20	29	49	18	15	0	*Seasonable*
7	T		17	18	13 ♈	45	19	15	0	*and more*
8	W	Sun sets 7. 36.	18	16	27	33	20	15	D	*warm.*
9	T	Ascen. Holy Th.	19	14	11 ♉	10	20	15	0	
10	F		20	12	24	34	21	15	0	*I expect we*
11	S	Sun rises 4. 19.	21	10	7 ♊	41	22	15	0	*may have*
12	F	Sund. aft. Asc.	22	7	20	31	22	15	1	Old May Day
13	M	Easter Ter. ends	23	5	3 ♋	3	23	14	1	☌ ☉ ♂
14	T		24	3	15	20	24	14	1	*some thunder*
15	W	Sun sets 7. 47	25	1	27	23	25	14	2	*showers now*
16	T	Oxf. T. ends	25	59	9 ♌	17	25	13	2	*about.*
17	F		26	56	21	7	26	13	3	☍ ☉ ♃
18	S	Sun rises 4. 9.	27	54	2 ♍	56	27	12	4	☍ ♃ ♂
19	F	Whit Sund. Q. Charl. b.			14	52	27	12	4	Dunstan
20	M	Whit Monday	29	40	26	59	28	11	5	
21	T	Whit Tuesday	0 ♊	47	9 ♎	22	29	11	6	
22	W	Em. Week Prs. Eliz. b.			22	5	30	10	7	cam. T. div. n.
23	T		2	42	5 ♏	11	♊	10	8	
24	F	Sun sets 7, 59.	3	40	18	40	1	9	9	☌ ♄ ☿
25	S		4	37	2 ♐	30	2	9	10	*Windy*
26	F	Trinity Sunday	5	35	16	39	2	8	11	Augustine
27	M	Ven. Bede	6	32	1 ♑	0	3	7	12	☌ ☉ ♀
28	T		7	30	15	27	4	7	13	*and showers*
29	W	K. Ch. II. rest.	8	27	29	55	4	6	15	Oxf. T. beg.
30	T	Corpus Christi	9	25	14 ♒	18	5	5	16	☌ ♂ ♀
31	F	Trin. Term beg.	10	22	28	34	6	5	17	*to the end.*

M D	Jupiter South	Venus South	
1	1 m 14	2 a 15	Last Quarter, 3d Day at 4 Morning.
6	0 51	1 50	New Moon 10th Day at 4 Morning.
11	0 28	1 25	First Quarter 17th Day at 11 Morning.
16	0 5	1 0	Full Moon 25th Day at 4 Afternoon.
21	11 a 42	0 35	1st Day ☽ S. 0 a 2, ☌ 0 a 12, ☿ 11 m 24
26	11 20	0 9	16th D. ☽ S. 10m58, ☌ 11m3, ☿ 10 32

M D	Lunar Aspects ☉	☽	24	♂	♀	☿	Clock slow	Moon South	Rises & sets	Observations.
1			*			□	3 11	4m27	morn.	
2	□	□		□	△		3 18	5 25	0 49	
3			□				3 25	6 21	1 29	The aspects of the
4		*				*	3 31	7 15	2 5	last and this month
F	*			*	□		3 36	8 8	2 37	are of a very ma
6			△				3 41	9 ♒	3 6	lignant nature, de-
7					*		3 45	9 51	3 32	noting wranglings,
8		♂				♂	3 49	10 42	4 0	strife, murders, and
9	♂	16		♂		4	3 52	11 32	4 28	wars.
10	16		8	15			3 55	0a23	☽sets	When the celestial
11					♂		3 57	1 15	9a 6	choir agree,
F				12	*		3 58	2 6	9 59	We live in peace and
13		*					3 59	2 56	10 49	harmony;
14	*			*			3 59	3 45	11 34	But when there's
15		□	△			□	3 58	4 33	morn.	discord 'mongst the
16					*		3 58	5 19	0 12	stars,
17	□		□	□			3 50	6 4	0 44	On earth there's
18		△			□	△	3 54	6 48	1 12	wranglings, strife,
F							3 52	7 31	1 37	and wars.
20	△		*	△			3 49	8 15	2 1	
21					△		3 45	9 0	2 25	
22							3 41	9 47	2 49	
23		8				8	3 36	10 36	3 14	
24			♂				3 31	11 28	3 44	
25	8		13	8	8		3 26	morn	☽rises	
F	4						3 20	0 23	8a48	
27		△				△	3 13	1 20	9 51	
28			*				3 6	2 19	10 45	
29	☽	□		△	△		2 58	3 18	11 31	
30			□			□	2 50	4 16	morn.	
31	□	*		□	□		2 42	5 12	0 9	

1. Dryden died 1700
4. Hen. IV. mur. 1610
14. Ann Bullayne be-headed - - 150
17. D. of Marlborough died - - 172
19. Battle of La Hogue 169
27. J. Calvin died 155

JUNE hath xxx Days.

M D	♄ ♉	♃ ♏	☽ ♌
1	10	25	♍
6	11	2	10
11	11	24	10
16	12	24	10
21	12	23	10
26	13	23	9

How arctic Poles the lengthen'd Day explores,
And genial Rays salute the Zemblian Shores,
Where sky Rocks their crystal Summits raise,
Reflecting Phœbus beams ten thousand Ways;
The Boreal Zones appear immerg'd in Light,
While Southern Worlds are hid in endless Night.

M D	W D	Sundays and Remark. Days.	☉ long °	′	☽ long °	′	♂ ♊	♀ ♊	☿ ♉	Mutual Aspects And Weather.
1	S	Nicomede.	11 ♊	19	12 ♓	40	7	4	19	
2	F 1	S. aft. Trin.	12	17	26	35	7	4	20	*Fine weather*
3	M		13	14	10 ♈	21	8	3	22	*for the season.*
4	T	K. Geo. III. b.	14	12	23	56	9	3	23	
5	W	P. Er. Agu. b.	15	9	7 ♉	21	9	2	25	Boni. ☍ ♃ ☿
6	T		16	[illegible]	20	34	10	2	27	*Fine cooling*
7	F	☉ rises 3 48	17	4	3 ♊	36	11	1	28	*winds, and*
8	S		18	1	16	25	11	1	30	☌ ♀ ☿
9	F 2	S. af. Tr.	18	59	29	0	12	0	♊	*flying clouds.*
10	M		19	56	11 ♋	22	13	0	4	
11	T	St. Barnabas	20	53	23	32	14	♉	5	
12	W	☉ sets 8 15	21	51	5 ♌	31	14	29	7	*Hot and more*
13	T		22	48	17	22	15	29	9	*dry, with*
14	F	☉ rises 3 44	23	45	29	10	16	29	11	*thunder claps*
15	S		24	42	10 ♍	58	16	29	13	
16	F 3	S. aft. Trin.	25	40	22	53	17	29	15	
17	M	St. Alban	26	37	5 ♎	0	18	D	17	☌ ♂ ☿
18	T		27	34	17	23	18	29	19	*in some places.*
19	W	Trin. Ter. ends	28	31	0 ♏	8	19	29	22	
20	T	Tra. E K. W. S.	29	29	13	19	20	29	24	
21	F	Longest day	0 ♋	26	26	50	20	29	26	*Some showers,*
22	S	☉ sets 8 17	1	23	10 ♐	59	21	29	28	*and fine*
23	F 4	S. aft. Trin	2	20	25	25	22	29	♋	
24	M	Nat. J. Bapt.	3	17	10 ♑	7	22	29	2	Midsum. day
25	T		4	15	24	58	23	30	5	[☌ ☉ ☿
26	W	☉ rises 3 44	5	12	9 ♒	49	24	30	7	*summer wea-*
27	T		6	9	2[illegible]	33	24	♊	9	*ther, even to*
28	F	☉ sets 8 16	7	6	9 ♓	4	25	0	11	✱ ♄ ☿
29	S	St. Peter	8	2	23	20	26	1	13	*the end.*
[illegible]	F 5	S. aft. Trinity	9	0	7 ♈	27	27	1	15	

M D	Jupiter South		Venus South	
1	10	a 51	0	a 15
6	10	29	11	m 42
11	10	7	11	10
16	9	44	10	37
21	9	22	10	5
26	8	59	9	32

Last Quarter 1st Day, at 10 Morning.
New Moon 8th Day, at 3 Afternoon.
First Quarter 16th Day, at 6 Afternoon.
Full Moon 23d Day at Midnight.
Last Quarter 30th Day, at 3 Afternoon.

1st Day ☿ So. 10 m 16, ♂ 11 m 47, ♀ 10 m 29.
16 Day ☿ So. 8 16, ♂ 11 22, ♀ 11 15.

M D	Lunar Aspects. ☉	☿	♃	♂	♀	♅	Clock slow	Moon South	Rises & sets	Observations.
1			△			*	2 38	6m 6	0m 43	
F				*	*		2 24	6 56	1 10	
3	*						2 14	7 46	1 56	
4							2 4	8 36	2 3	
5		♂					1 54	9 25	2 29	
6		5	8		♂	♂	1 43	10 15	3 0	
7				♂	21	10	1 32	11 5	3 33	
8	♂			12			1 20	11 55	☽ sets	
F	3						1 9	0a46	8a40	
10		*					0 57	1 35	9 27	
11			△		*		0 45	2 23	10 7	
12		□		*		*	0 32	3 10	10 42	
13	*		□				0 20	3 56	11 13	
14					□		0 7	4 40	11 38	
15		△		□		□	obef. 5	5 23	morn.	
F	□		*		△		0 18	6 5	0 3	
17							0 31	6 48	0 24	
18	△			△		△	0 44	7 33	0 47	
19		8					0 57	8 20	1 11	
20			♂				1 10	9 10	1 37	
21			17		8		1 23	10 3	2 8	
22				8			1 35	11 0	2 45	
F	8					8	1 48	11 59	☽ rises	
24	12	△					2 1	morn.	8a32	
25			*		△		2 13	1 0	9 22	
26		□					2 26	2 0	10 3	
27	△		□	△	□		2 38	2 58	10 39	
28		*				△	2 50	3 54	11 9	
29			△	□	*		3 2	4 47	11 37	
F	□					□	3 14	5 39	morn.	

The 4th day of this month, 1738, was born his present Majesty K. GEORGE III. to whom God give grace, wisdom, and understanding; and grant that he may long preside over these realms, to the honour and glory of God, and true happiness of all good men;—to which let all true Protestants say Amen.

Vivant Rex & Regina.

7. Bastile taken 1761
8. Seven bishops sent to the Tower 1688
10. Geor. I. died 1727
16. Bat. of Dettingen 1743
17. Addison died 1719
18. Mahomet died 631

July hath xxxi Days!

In Droves the Cattle quit the open Glade
And parched Fields, to seek the friendly Shade:
The bathing Nymph each whisp'ring Breeze alarms,
While River Gods admire her naked Charms;
At Country Wakes, replete with Cakes and Ale,
Young Swains declare their Loves in rustic Tale.

M D	☿	♃	☽
	♌	♍	♎
1	13	23	♍
6	14	22	9
11	14	22	9
16	14	22	8
21	15	22	8
26	15	22	8

M D	W D	Sundays and Remark. Days.	☉long ° ′	☽ long. ° ′	♂ ♌	♀ ♍	☿ ♎	Mutual Aſpects And Weather.
1	M	☉ riſes 3 46	9♋58	20♑58	27	2	17	*Fine hay*
2	T	Viſitat. V. M.	10 55	4♒21	28	2	19	Cam. Com.
3	W	Dog days begin	11 52	17 30	29	3	22	△ ♃ ☿
4	T	Tran. St. Mart.	12 49	0♓25	29	3	24	*weather new*
5	F	Cam. T. ends	13 47	13 18	30	4	25	Old Midſum.
6	S		14 44	25 38	♌	4	27	*about.*
7		**F 6 S. aft. Trin.**	15 41	7♉58	1	5	29	Th. à Becket
8	M	Oxford Act.	16 38	20 7	2	5	♎	
9	T		17 35	2♊ 7	3	6	3	*Some winds,*
10	W	☉ ſets 8 8	18 33	14 0	3	6	5	*with flying*
11	T		19 30	25 48	4	7	7	✱ ♀ ☿
12	F		20 27	7♋34	5	8	8	*clouds.*
13	S	Oxf. Ter. ends	21 24	19 23	5	8	10	
14		**F 7 S. aft. Trin.**	22 22	1♌17	6	9	12	
15	M	Swithin	23 19	13 23	7	10	14	□ ♄ ☿
16	T		24 16	25 45	7	11	15	*Hot weather,*
17	W	☉ riſes 3 59	25 14	8♍28	8	11	17	*with ſhowers*
18	T		26 11	21 36	9	12	18	*at intervals,*
19	F		27 8	5♎12	9	13	20	
20	S	Margaret	28 5	19 16	10	14	21	□ ♃ ☿
21		**F 8 S. aft. Trin.**	29 3	3♏46	11	14	23	*more pleaſant*
22	M	Magdalen	30 0	18 37	11	15	24	*and ſerene;*
23	T		♌57	3♐41	12	16	26	*perhaps thun-*
24	W	☉ ſets 7 52	1 54	18 50	13	17	27	*der in ſome*
25	T	**St. James**	2 52	3♑53	13	18	28	*places.*
26	F	St. Anne	3 49	18 42	14	19	30	
27	S	☉ riſes 4 12	4 46	3♒12	15	20	♍	✱ ♄ ♂
28		**F 9 S. aft. Trin.**	5 44	17 20	15	20	2	
29	M		6 41	1♓ 5	16	21	3	
30	T		7 39	14 27	17	22	5	
31	W	☉ ſets 7 42	8 36	27 29	17	23	6	

D of M	Jupiter South	Venus South
1	8 a 37	9 m 32
6	8 16	9 23
11	7 55	9 14
16	7 34	9 5
21	7 13	8 56
26	6 53	8 47

New Moon 8th Day, at 5 Morning.
First Quarter 16th Day, at 9 Morning.
Full Moon 23d Day, at 7 Morning.
Last Quarter 29th Day, at 11 Night.
1st Day ☿ S. 8m 21, ♂ 11 m 11, ♃ 0 a 33.
16th Day ☿ S. 6 29, ♂ 10 7, ♃ 1 28.

M. D.	Lunar Aspects. ☉	☿	♃	♂	♀	♄	Clock fast	Moon South	☽ rises & sets	Observations.
1				*			3 25	6m 28	o m 3	
2	*	♂					3 37	7 17	♂ 29	Some rumours from
3		17	☽			*	3 48	8 7	♃ 58	the north, north east
4					♂		3 59	8 56	1 29	and western parts
5				♀			4 9	☿ 45	♀ 4	*Poland, Russia, Ire-*
6				♂			4 19	10 35	♀ 45	*land, Tartaria, Swe-*
F	♂	*		☿			4 29	11 25	3 29	*den*, and sundry other
8	17		△				4 38	o a 13	☽ sets	places, now conci-ted
9					*	♂	4 47	1 0	8a 38	by the significa
10		□	□			2	4 56	1 46	☿ 9	tion of the stars; yet
11				*			5 4	2 31	♃ 36	the present condition
12		△			□		5 12	3 14	10 2	of some nations is
13	*		*				5 19	3 57	10 25	better than reported.
F				□	△		5 26	4 40	10 47	Clerks and account-
15	□					*	5 32	5 23	11 10	ants about this time
16							5 38	6 8	11 35	meet great disap-
17		8		△		□	5 43	6 55	morn.	pointments.
18	△		♂				5 47	7 46	o 3	
19			☽		8		5 51	8 40	♂ 37	
20						△	5 55	9 37	1 17	
F		△		8			5 58	10 37	2 5	
22	8		*				6 0	11 38	3 5	
23	20	□			△		6 2	morn.	☽ rises	
24			□			8	6 3	o 39	8a 32	
25		*		△			6 3	1 38	☿ 7	
26			△		□		6 3	2 35	♃ 36	
27	△			□			6 3	3 29	10 4	
F					*		6 2	4 21	10 32	
29	□					△	6 0	5 11	10 59	
30		♂	8	*			5 58	6 1	11 31	
31		1				□	5 55	6 51	morn.	

4. The rebel. beg. 1745
6. Hen II. died 1189
Edw. VI. died 1553
Sir T. Moore be. 1535
7. Edw. I. died 1307
9. Czar Peter mar. 1762
13. Pea. of Utrecht 1713
17. Capt. Preston a. 1745
24. Gibraltar tak. 1704
29. Sp. Armada de. 1588

August hath xxxi Days.

M	♄	♃	♂
D	♍	♏	♐
1	15	22	♑
6	15	23	7
11	16	23	7
16	16	23	7
21	16	24	6
26	16	24	6

Now August comes in yellow Mantle dreſt,
Health in her Looks, and Plenty on her Breaſt;
With wheat Ears crown'd the Nymph trips o'er the Plain,
And joyous Reapers shouting in her Train,
Vertumnus Gifts luxuriant now beſtows,
And Ceres' Cornucopia overflows.

M	W	Sundays and	☉ ſos.	☽ long	☿	♀	♂	Mutual Aſpects
D	D	Remark. Days	° ′	° ′	♌	♍	♑	And Weather.
1	T	Lammas day	9♌34	10♍14	18	24	7	*Pleaſant*
2	F		10 31	22 43	18	25	8	*ſeaſonable*
3	S	Sun riſes 4 23	11 28	4♎59	19	26	9	*harveſt*
4	☉	10 S. aft. Trin.	12 26	17 5	20	27	10	*weather.*
5	M		13 24	29 4	20	28	11	
6	T	Transfiguration	14 21	10♌56	21	29	11	
7	W	Prs. Am. born	15 19	22 45	22	30	12	Name of Jeſus
8	T		16 16	4♏31	22	♎	13	△♃♂, □☉♄
9	F	Sun ſets 7 27	17 14	16 19	23	2	14	*Cloudy air,*
10	S	St. Lawrence	18 12	28 10	24	3	14	*with rain,*
11	☉	11 S.a.Tr.P.B.	19 9	10♎7	24	4	15	Dog days end.
12	M	Pr. of Wales b.	20 7	22 16	25	5	15	Old Lammas
13	T		21 5	4♏38	26	6	16	△♄☿
14	W	Sun riſes 4 42	22 2	17 19	26	7	16	*and thunder,*
15	T	Aſſumption	23 0	0♐23	27	8	16	*and lightning,*
16	F	D. York. b.	23 58	13 51	28	9	16	□☉♃
17	S		24 55	27 47	28	10	℞	*in ſeveral*
18	☉	12 S. aft. Trin.	25 53	12♑8	29	11	16	*parts of the*
19	M		26 51	26 54	29	12	16	*kingdom.*
20	T	Sun ſets 7 7	27 49	11♒56	♌	13	16	
21	W	D. of Clar. bo.	28 47	27 8	1	14	16	
22	T		29 44	12♓19	1	15	15	△♄☿
23	F		0♍42	27 21	2	16	15	✶♀☿
24	S	St. Bartholo.	1 40	12♈5	3	17	14	✶♄♀
25	☉	13 S. aft. Trin.	2 38	26 26	3	18	13	*Whiſtling*
26	M	Sun riſes 5 4	3 36	10♉21	4	19	13	*winds, and*
27	T		4 34	23 49	5	20	12	*flying clouds.*
28	W	St. Auguſtine	5 32	6♊53	5	21	11	
29	T	J. Bapt. beh.	6 30	19 34	6	22	10	*Haſty ſhowers*
30	F		7 28	1♋57	6	23	9	☌☉☿
31	S	Sun ſets 6 47	8 26	14 6	7	24	8	△♃♀

M D	Jupiter South	Venus South	
1	6 a 32	8 m 47	New Moon 6th Day, at 8 Afternoon.
6	6 15	8 48	First Quarter 14th Day, at 9 Night.
11	5 57	8 49	Full Moon 21ſt Day, at 3 Afternoon.
16	5 40	8 50	Laſt Quarter 28th Day, at 9 Morning
21	5 22	8 51	1ſt Day ☽ S. 6 m 29, ☿ 10 m 36, ♂ 1 a 45.
26	3 5	8 52	16 Day ☽ S. 5 12, ☿ 10 14, ♂ 1 18.

M D	Lunar Aſpects. ☉	☽	♃	♂	♀	☿	Clock faſt	Moon South	☽ riſes & ſets	Obſervations.
1	✶						5 51	7 m 41	0 m ſ	
2					♂		5 47	8 31	0 44	Some private contrivance of a miſchievous nature is now in agitation, leagues and vows are in danger of being broken; or at the beſt, wranglings and ſtrife muſt be expected amongſt great men.
3		✶					5 43	9 20	1 26	
F			△		♃	✶	5 37	10 9	2 16	
5				♂			5 32	10 56	3 9	
6	♂	□		♀			5 25	11 43	☽ ſets	
7	☿		□		✶		5 18	0 a 28	7 a 34	There ſeems to be ſome religious perſon laboring under ſome diſcontent; and a fly piece of villainy now comes to light.
8						♂	5 11	1 13	8 p	
9		△	✶	✶		☿	5 3	1 56	8 30	
10					□		4 54	2 39	8 54	
F	✶						4 45	3 21	9 15	
12				□			4 35	4 5	9 40	
13		☿			△	✶	4 24	4 51	10 6	
14	□		♂	△			4 13	5 39	10 36	
15			☊				4 2	6 30	11 12	
16	△					□	3 50	7 24	11 55	
17					☿		3 37	8 21	morn.	1. Q Ann died 1714. Gr. Pendſ. ſent taken 1759.
F		△	✶			△	3 24	9 21	0 49	6. James II. died 1701
19				☿			3 10	10 22	1 52	8. Cherburg ta. 1758
20		□	□				2 56	11 22	3 4	16. A rebellion in
21	☿						2 41	morn.	☽ riſes	Ireland ſuppoſ. 200,000
22	☽	✶	△		△	☿	2 26	0 21	7 a 38	1641.
23				△			2 11	1 18	8 8	22. Richard III. killed
24					□		1 55	2 13	8 37	in Boſworth field
F	△			□			1 39	3 6	9 5	1485.
26		♂			✶	△	1 22	3 58	9 36	
27	□	♄	☿	✶			1 5	4 50	10 10	
28						□	0 47	5 41	10 48	
29							0 30	6 32	11 30	
30	✶					✶	0 12	7 22	morn.	
31		✶	△		♂		0 a ſt. 7	8 11	0 16	

September hath xxx Days.

Soon as Aurora gilds the Eastern Skies,
Unto the Chace the eager Sportsman flies;
O'er Hills and Plains they scour it far away,
And Pus is doom'd the Victim of the Day:
She falls, and now th' impatient Dogs surround,
While ev'ry Dale and Wood with Shouts resound.

M	♄	♃	☽
D	♉	♍	♓
1	16	25	♍
6	16	26	♎
11	16	26	♎
16	15	27	♎
21	15	28	♎
26	15	29	♏

M	W	Sundays and	☉ long	☽ long	☌	☌	☌	Mutual Aspects
D	D	Remark. Days.	° ′	° ′	♌	♎	♍	And Weather.
1	F	14 S. aft. Trin.	9 ♍ 25	26 ♎ 4	8	25	7	Giles
2	M	Lond. b. 1666	10 23	7 ♌ 56	8	27	6	
3	T		11 21	19 43	9	28	5	*Moderate,*
4	W	☉ rises 5 21	12 19	1 ♍ 30	10	29	5	*temperate, and*
5	T		13 18	13 19	10	30	4	*good weather*
6	F	Sun eclipsed ☉ sets 6 35	14 16	25 11	11	♌	3	*for several*
7	S	Enurchus.	15 14	7 ♎ 10	12	2	3	*days,*
8			16 13	19 17	12	3	3	Nativ. V. M.
9	M	15 S. aft. Trin.	17 11	1 ♍ 34	13	4	D	
10	T	☉ rises 5 32.	18 9	14 3	13	5	3	
11	W		19 8	26 48	14	7	3	
12	T		20 6	9 ♐ 51	15	8	3	*Wind and rain*
13	F	☉ sets 6 22	21 5	23 14	15	9	4	□ ♄ ♂
14	S		22 3	6 ♑ 59	16	10	4	*may now be*
15			23 2	21 6	17	11	5	*expected, per-*
16	M	16 S. aft. Trin.	24 1	5 ♒ 35	17	12	6	*haps thunder.*
17	T	Lambert.	24 59	20 21	18	13	7	
18	W		25 58	5 ♓ 30	18	15	8	
19	T	Ember week	26 57	20 25	19	16	10	□ ♄ ♀
20	F		27 55	5 ♈ 25	20	17	11	*Still windy,*
21	S		28 54	20 14	20	18	12	*with flying*
22		St. Matthew	29 53	4 ♉ 42	21	19	14	*clouds.*
23	M	17 S. aft. Trin.	0 ♎ 52	18 45	22	20	16	K. G. 3. cro.
24	T	☉ rises 5 58	1 50	2 ♊ 21	22	21	17	△ ♄ ♅
25	W	Holy Cross	2 49	15 31	23	23	19	☌ ♂ ♀
26	T	St. Cyprian	3 48	28 15	23	24	21	*Rain now*
27	F		4 47	10 ♋ 38	24	25	22	*about may be*
28	S	☉ sets 5 52	5 46	22 45	25	26	24	*expected.*
29								
30	M	18 S. aft. Trin. F. R. St. Jerome	7 44	4 ♌ 40 16 29	25 26	27 28	26 28	St. Mich. □ ♃ ♀

M D	Jupiter South	Venus South	
1	4 a 47	8m 59	New Moon 5th Day at Noon.
6	4 32	8 6	First Quarter 13th Day, at 8 Morning.
11	4 17	8 12	Full Moon 19th Day, at 11 Night.
16	4 2	8 19	Last Quarter 26th Day, at Midnight
21	3 41	8 25	1st Day ♄ S. 4m35, ♂ 10m 4, ☿ 11m52,
26	3 32	9 32	16th D. ♄ S. 3 18, ♂ 9 42. ☿ 10 55.

M D	Lunar Aspects ☉	♄	♃	♂	♀	☿	Clock flow.	Moon South	☾ rises & sets
F							0 25	8m59	1m 9
2		□		☌			0 44	9 47	2 5
3			□	2			1 4	10 32	3 4
4						☌	1 23	11 17	4 6
5	☌	△				6	1 43	0 a 1	☽ sets
6	○		*		*		2 2	0 44	7 a 6
7				*			2 22	1 28	7 29
F							2 43	2 11	7 52
9				□	□	*	3 3	2 56	8 18
10	*	☍					3 24	3 43	8 47
11			☌		△	□	3 44	4 32	9 18
12	□		○	△			4 5	5 24	9 58
13						△	4 26	6 18	10 47
14		△					4 47	7 16	11 43
F	△		*				5 8	8 15	morn.
16		□		☍	☍		5 29	9 13	0 51
17			□				5 50	10 11	2 5
18		*				☍	6 11	11 9	3 25
19	☍		△				6 32	morn.	☽ rises
20	11				△		6 53	0 5	6 a 42
21				△			7 14	1 0	7 12
F		☌				△	7 35	1 54	7 43
23	△	16	☍	□	□		7 56	2 48	8 16
24							8 16	3 41	8 52
25				*	*	□	8 36	4 33	9 34
26	□						8 57	5 25	10 21
27		*					9 17	6 15	11 12
28			△			*	9 36	7 4	morn.
F	*						9 56	7 52	0 7
30		□		☌	☌		10 15	8 39	1 6

Observations.

On the 2d, 3d, 4th and 5th days of this month, O. S. or the 13th, 14th, 15th, and 16th, according to the New, 1666, was the famous city of London burnt by those vile incendiaries the Papists.

Europe is now almost ready for division. Here is something about to break out, that will carry a strange consequence in its tail.

3. Cromwell died 1658
5. Ep. Bonne. dr. 1560
8. Geo. III. and Char. wedded 1761
10. Wm. Con. di. 1087
16. Geo. I. land. 1714
21. Ed. I. murd. 1327
25. Geo. II. died 1700
29. Rich. II. dep. 1399

JUNE hath xxx Days.

M D	♄ ♉	♃ ♏	☽ ♌
1	10	25	♍
6	11	2	10
11	11	24	10
16	12	24	10
21	12	23	10
26	13	23	9

How arctic Poles the lengthen'd Day explores,
And genial Rays salute the Zemblian Shores,
Where Icy Rocks their crystal Summits raise,
Reflecting Phœbus beams ten thousand Ways;
The Boreal Zones appear immerg'd in Light,
While Southern Worlds are hid in endless Night.

M D	W D	Sundays and Remark. Days.	☉ long °	′	☽ long °	′	♂ ♊	♀ ♊	☿ ♉	Mutual Aspects And Weather.
1	S	Nicomede.	11 ♊	19	12 ♓	40	7	4	19	
2	F 1	S. aft. Trin.	12	17	26	35	7	4	20	*Fine weather*
3	M		13	14	10 ♈	21	8	3	22	*for the season.*
4	T	K. Geo. III. b.	14	12	23	56	9	3	23	
5	W	P. Er. Agu. b.	15	9	7 ♉	21	9	2	25	Boni. ☍ ♃ ☿
6	T		16	[illegible]	20	34	10	2	27	*Fine cooling*
7	F	☉ rises 3 48	17	4	3 ♊	36	11	1	28	*winds, and*
8	S		18	1	16	25	11	1	30	☌ ♀ ☿
9	F 2	S. af. Tr.	18	59	29	0	12	0	♊	*flying clouds.*
10	M		19	56	11 ♋	22	13	0	4	
11	T	St. Barnabas	20	53	23	32	14	♉	5	
12	W	☉ sets 8 15	21	51	5 ♌	31	14	29	7	*Hot and more*
13	T		22	48	17	22	15	29	9	*dry, with*
14	F	☉ rises 3 44	23	45	29	10	16	29	11	*thunder claps*
15	S		24	42	10 ♍	58	16	29	13	
16	F 3	S. aft. Trin.	25	40	22	53	17	29	15	
17	M	St. Alban	26	37	5 ♎	0	18	D	17	☌ ♂ ☿
18	T		27	34	17	23	18	29	19	*in some places.*
19	W	Trin. Ter. ends	28	31	0 ♏	8	19	29	22	
20	T	Tra. E K. W. S.	29	29	13	19	20	29	24	
21	F	Longest day	0 ♋	26	26	50	20	29	26	*Some showers,*
22	S	☉ sets 8 17	1	23	10 ♐	59	21	29	28	*and fine*
23	F 4	S. aft. Trin	2	20	25	25	22	29	♋	
24	M	Nat. J. Bapt.	3	17	10 ♑	7	22	29	2	Midsum. day
25	T		4	15	24	58	23	30	5	[☌ ☉ ☿
26	W	☉ rises 3 44	5	12	9 ♒	49	24	30	7	*summer wea-*
27	T		6	9	2[illegible]	33	24	♊	9	*ther, even to*
28	F	☉ sets 8 16	7	6	9 ♓	4	25	0	11	✱ ♄ ☿
29	S	St. Peter	8	2	23	20	26	1	13	*the end.*
30	F 5	S. aft. Trinity	9	0	7 ♈	27	27	1	15	

M D	Jupiter South	Venus South
1	10 a 51	0 a 15
6	10 29	11 m 42
11	10 7	11 10
16	9 44	10 37
21	9 22	10 5
26	8 59	9 32

Last Quarter 1st Day, at 10 Morning.
New Moon 8th Day, at 3 Afternoon.
First Quarter 16th Day, at 6 Afternoon.
Full Moon 23d Day at Midnight.
Last Quarter 30th Day, at 3 Afternoon.
1st Day ☽ So. 10 m 16, ♂ 11 m 47, ☿ 10 m 29.
16 Day ☽ So. 8 16, ♂ 11 22, ☿ 11 15.

M D	Lunar Aspects. ☉	♄	♃	♂	♀	☿	Clock slow	Moon South	Rises & sets	Observations.
1			△			*	2 33	6m 6	0m 43	
F				*	*		2 24	6 56	1 10	The 4th day of this month, 1738, was born his present Majesty K. GEORGE III. to whom God give grace, wisdom, and understanding; and grant that he may long preside over these realms, to the honour and glory of God, and true happiness of all good men;—to which let all true Protestants say Amen. ☞ *Vivant Rex & Regina.*
3	*						2 14	7 46	1 56	
4							2 4	8 36	2 3	
5		♂					1 54	9 25	2 29	
6		5	8		♂	♂	1 43	10 15	3 0	
7				♂	21	10	1 32	11 5	3 33	
8	♂			12			1 20	11 55	☽ sets	
F	3						1 9	0a46	8a40	
10		*					0 57	1 35	9 27	
11			△		*		0 45	2 23	10 7	
12		□		*		*	0 32	3 10	10 42	
13	*		□				0 20	3 56	11 13	
14					□		0 7	4 40	11 38	
15		△		□		□	obef. 5	5 23	morn.	
F	□		*		△		0 18	6 5	0 3	
17							0 31	6 48	0 24	
18	△			△		△	0 44	7 33	0 47	
19		8					0 57	8 20	1 11	
20			♂				1 10	9 10	1 37	
21			17		8		1 23	10 3	2 8	
22				8			1 35	11 0	2 45	
F	8					8	1 48	11 59	☽ rises	
24	12	△					2 1	morn.	8a32	
25			*		△		2 13	1 0	9 22	
26		□					2 26	2 0	10 3	
27	△		□	△	□		2 38	2 58	10 39	
28		*				△	2 50	3 54	11 9	
29			△	□	*		3 2	4 47	11 37	
F	□					□	3 14	5 39	morn.	

7. Belleisle taken 1761
8. Seven bishops sent to the Tower 1688
10. Geor. I. died 1727
16. Bat. of Dettingen 1743
17. Addison died 1719
18. Mahomet died 632

July hath xxxi Dayes

M D	♄	♃	☽
	♍	♍	♌
1	13	23	♍
6	14	22	9
11	14	22	9
16	14	22	8
21	15	22	8
26	15	22	8

In Droves the Cattle quit the open Glade
And parched Fields, to seek the friendly Shade:
The bathing Nymph each whisp'ring Breeze alarms,
While River Gods admire her naked Charms;
At Country Wakes, replete with Cakes and Ale,
Young Swains declare their Loves in rustic Tale.

M D	W D	Sundays and Remark. Days.	☉ long ° ′	☽ long. ° ′	♂ ♍	♀ ♍	☿ ♎	Mutual Aſpects And Weather.
1	M	☉ riſes 3 46	9♋58	20♌58	27	2	17	*Fine hay*
2	T	Viſitat. V. M.	10 55	4♍21	28	2	19	Cam. Com.
3	W	Dog days begin	11 52	17 30	29	3	22	△ ♃ ☿
4	T	Tran. St. Mart.	12 49	0♎25	29	3	24	*weather now*
5	F	Cam. T. ends	13 47	13 18	30	4	25	Old Midſum.
6	S		14 44	25 38	♎	4	27	*about.*
7		**F 6 S. aft. Trin.**	15 41	7♎58	1	5	29	Th. à Becket
8	M	Oxford Act	16 38	20 7	2	5	♏	
9	T		17 35	2♏ 7	3	6	3	*Some winds,*
10	W	☉ ſets 8 8	18 33	14 0	3	6	5	*with flying*
11	T		19 30	25 48	4	7	7	✱ ♀ ☿
12	F		20 27	7♐34	5	8	8	*clouds,*
13	S	Oxf. Ter. ends	21 24	19 23	5	8	10	
14		**F 7 S. aft. Trin.**	22 22	1♑17	6	9	12	
15	M	Swithin	23 19	13 23	7	10	14	□ ♄ ☿
16	T		24 16	25 45	7	11	15	*Hot weather,*
17	W	☉ riſes 3 59	25 14	8♒28	8	11	17	*with ſhowers*
18	T		26 11	21 36	9	12	18	*at intervals,*
19	F		27 8	5♓12	9	13	20	
20	S	Margaret	28 5	19 16	10	14	21	□ ♃ ☿
21		**F 8 S. aft. Trin.**	29 3	3♈46	11	14	23	*more pleaſant*
22	M	Magdalen	30 0	18 37	11	15	24	*and ſerene;*
23	T		♌ 57	3♉41	12	16	26	*perhaps thun-*
24	W	☉ ſets 7 52	1 54	18 50	13	17	27	*der in ſome*
25	T	St. James	2 52	3♊53	13	18	28	*places.*
26	F	St. Anne	3 49	18 42	14	19	30	
27	S	☉ riſes 4 12	4 46	3♋12	15	20	♍	✱ ♄ ♂
28		**F 9 S. aft. Trin.**	5 44	17 20	15	20	2	
29	M		6 41	1♌ 5	16	21	3	
30	T		7 39	14 27	17	22	5	
1	W	☉ ſets 7 42	8 36	27 29	17	23	6	

D of M	Jupiter South	Venus South
1	8 a 37	9 m 32
6	8 16	9 23
11	7 55	9 14
16	7 34	9 5
21	7 13	8 56
26	6 53	8 47

New Moon 8th Day, at 5 Morning.
First Quarter 16th Day, at 10 Morning.
Full Moon 23d Day, at 7 Morning.
Last Quarter 29th Day, at 11 Night.
1st Day ♄ S. 8 m 21, ♂ 11 m 11, ♅ 0 a 33.
16th Day ♄ S. 6 29, ♂ 10 7, ♅ 1 28.

D of M	D of W	Lunar Aspects. ☉	☽	♃	♂	♀	☿	Clock fast	Moon South	D rises & sets
1					*			3 25	6m28	0 m 3
2		*	♂					3 37	7 17	0 29
3			17	♅			*	3 48	8 7	0 58
4						♂		3 59	8 56	1 29
5						4		4 9	☌ 45	2 4
6					♂			4 19	10 35	2 45
F		♂	*		☌			4 29	11 25	3 29
8		17		△				4 38	0 a 13	☽ sets
9						*	♂	4 47	1 0	8 a 38
10			□	□			2	4 56	1 46	☌ 9
11					*			5 4	2 31	☌ 36
12			△			□		5 12	3 14	10 2
13		*		*				5 19	3 57	10 25
F					□	△		5 26	4 40	10 47
15		□					*	5 32	5 23	11 10
16								5 38	6 8	11 35
17			♅		△		□	5 43	6 55	morn.
18		△		♂				5 47	7 46	0 3
19				☌		♅		5 51	8 40	0 37
20							△	5 55	9 37	1 17
F			△		♅			5 58	10 37	2 5
22		♅		*				6 0	11 38	3 5
23		20	□			△		6 2	morn.	☽ rises
24				□			♅	6 3	0 39	8 a 32
25			*		△			6 3	1 38	9 7
26				△		□		6 3	2 35	9 36
27		△			□			6 3	3 29	10 4
F						*		6 2	4 21	10 32
29		□					△	6 0	5 11	10 59
30			♂	♅	*			5 58	6 1	11 31
31			1				□	5 55	6 51	morn.

Observations.

Some rumours from the north, north east and western parts. *Poland, Ruſſia, Ireland, Tartary, Sweden*, and ſundry other places, now concerned by the ſignification of the ſtars; yet the preſent condition of ſome nations is better than reported. Clerks and accountants about this time meet great diſappointments.

4. The rebels beg. 1745
6. Hen II. died 1189
Edw. VI. died 1553
Sir T. Moore beh. 1535
7. Edw. I. died 1307
9. Czar Peter mar. 1762
13. Pea. of Utrecht 1713
17. Capt. Preſton a. 1746
24. Gibraltar tak. 1704
29. Sp. Armada d. 1588

August hath xxxi Days.

Now Auguſt comes in yellow Mantle dreſt,
Health in her Looks, and Plenty on her Breaſt;
With wheat Ears crown'd the Nymph trips o'er the Plain,
And joyous Reapers shouting in her Train.
Vertumnus Gifts luxuriant now beſtows,
And Ceres' Cornucopia overflows.

M D	☽	☿	♀
	♌	♍	♎
1	15	22	♍
6	15	23	7
11	16	23	7
16	16	23	7
21	10	24	6
26	16	24	6

M D	W D	Sundays and Remark. Days	☉ lon. ° ′	☽ long ° ′	♂ ♋	♀ ♊	☿ ♍	Mutual Aſpects And Weather.
1	T	Lammas day	9♌34	10♊14	18	24	7	*Pleaſant*
2	F		10 31	22 43	18	25	8	*ſeaſonable*
3	S	Sun riſes 4 23	11 28	4♋59	19	26	9	*harveſt*
4	F	10 S. aft. Trin.	12 26	17 5	20	27	10	*weather.*
5	M		13 24	29 4	20	28	11	
6	T	Transfiguration	14 21	10♌56	21	29	11	
7	W	Prs. Am. born	15 19	22 45	22	30	12	Name of Jeſus
8	T		16 16	4♍31	22	♋	13	△♃♂,□☉♄
9	F	Sun ſets 7 27	17 14	16 19	23	1	14	*Cloudy air,*
10	S	St. Lawrence	18 12	28 10	24	3	14	*with rain,*
11	☩	11 S. a. Tr. P. B.	19 9	10♎ 7	24	4	15	Dog days end.
12	M	Pr. of Wales b.	20 7	22 16	25	5	15	Old Lammas
13	T		21 5	4♍38	26	6	16	△♄☿
14	W	Sun riſes 4 42	22 2	17 19	26	7	16	*and thunder,*
15	T	Aſſumption	23 0	0♐23	27	8	16	*and lightning,*
16	F	D. York. b.	23 58	13 51	28	9	16	□☉♃
17	S		24 55	27 47	28	10	℞	*in ſeveral*
18	☩	12 S. aft. Trin.	25 53	12♑ 8	29	11	16	*parts of the*
19	M		26 51	26 54	29	12	16	*kingdom.*
20	T	Sun ſets 7 7	27 49	11♒56	♌	13	16	
21	W	D. of Clar. bo.	28 47	27 8	1	14	16	
22	T		29 44	12♓19	1	15	15	△♄☿
23	F		0♍42	27 21	2	16	15	✶♀☿
24	S	St. Bartholo.	1 40	12♈ 5	3	17	14	✶♄♀
25	☩	13 S. aft. Trin.	2 38	26 26	3	18	13	*Whiſtling*
26	M	Sun riſes 5 4	3 36	10♉21	4	19	13	*winds, and*
27	T		4 34	23 49	5	20	12	*flying clouds.*
28	W	St. Auguſtine	5 32	6♊53	5	21	11	
29	T	J. Bapt. beh.	6 30	19 34	6	22	10	*Haſty ſhowers*
30	F		7 28	1♋57	6	23	9	♂☉☿
31	S	Sun ſets 6 47	8 26	14 6	7	24	8	△♃♀

M D	Jupiter South	Venus South	
1	6 a 32	8 m 47	New Moon 6th Day, at 8 Afternoon.
6	6 15	8 48	First Quarter 14th Day, at 9 Night.
11	5 57	8 49	Full Moon 21st Day, at 3 Afternoon.
16	5 40	8 50	Last Quarter 28th Day, at 9 Morning
21	5 22	8 51	1st Day ♄ S. 6 m 29, ☿ 10 m 36, ☿ 1 a 45.
26	3 5	8 52	16 Day ♄ S. 5 12, ☿ 10 14, ☿ 1 18.

M D	Lunar Aspects. ☉	♄	♃	♂	♀	☿	Clock fast	Moon South	☽ rises & sets
1	✱						5 51	7 m 41	0 m 5
2					☌		5 47	8 31	0 44
3		✱					5 43	9 20	1 26
F			△		4	✱	5 37	10 9	2 16
5				☌			5 32	10 56	3 9
6	☌	□		2			5 25	11 43	☽ sets
7	8		□		✱		5 18	0 a 28	7 a 34
8						☌	5 11	1 13	8 7
9		△	✱	✱		16	5 3	1 56	8 30
10					□		4 54	2 39	8 54
F	✱						4 45	3 21	9 15
12				□			4 35	4 5	9 40
13		8			△	✱	4 24	4 51	10 6
14	□		☌	△			4 13	5 39	10 36
15			11				4 2	6 30	11 12
16	△					□	3 50	7 24	11 55
17					8		3 37	8 21	morn.
F		△	✱			△	3 24	9 21	0 49
19				8			3 10	10 22	1 52
20		□	□				2 56	11 22	3 4
21	8						2 41	morn.	☽ rises
22	3	✱	△		△	8	2 26	0 21	7 a 38
23				△			2 11	1 18	8 8
24					□		1 55	2 13	8 37
F	△			□			1 39	3 6	9 5
26		☌			✱	△	1 22	3 58	9 36
27	□	6	8	✱			1 5	4 50	10 10
28						□	0 47	5 41	10 48
29							0 30	6 32	11 30
30	✱					✱	0 12	7 22	morn.
31		✱	△		☌		0 aft. 7	8 11	0 16

Observations.

Some private contrivance of a mischievous nature is now in agitation, leagues and truces are in danger of being broken; or at the best, wranglings and strife must be expected amongst great men.

There seems to be some religious persons labouring under some discontent; and a sly piece of villainy now comes to light.

1. Q. Ann died 1714
5. Grand Point taken 1759.
6. James II. died 1701
8. Cherburg ta. 1758
16. In a rebellion in Irland slain 200,000 1641.
22. Richard III. killed in Bosworth field 1485.

SEPTEMBER hath xxx Days.

Soon as Aurora gilds the Eastern Skies,
Unto the Chace the eager Sportsman flies;
O'er Hills and Plains they scour it far away,
And Pus is doom'd the Victim of the Day:
She falls, and now th' impatient Dogs surround,
While ev'ry Dale and Wood with Shouts resound.

M	☿	♃	☽
D	♍	♏	♓
1	16	25	♏
6	16	26	♐
11	16	26	♐
16	15	27	♐
21	15	28	♐
26	15	29	♑

M D	W D	Sundays and Remark. Days.	☉ long ° ′	☽ long ° ′	☌ ♌	☌ ♎	☌ ♏	Mutual Aspects And Weather.
1	F	14 S. aft. Trin.	9♏25	26♎ 4	8	25	7	Giles
2	M	Lond. B. 1666	10 23	7♌56	8	27	6	
3	T		11 21	19 43	9	28	5	*Moderate,*
4	W	☉ rises 5 21	12 19	1♏30	10	29	5	*temperate, and*
5	T		13 18	13 19	10	30	4	*good weather*
6	F	Sun eclipsed ☉ sets 6 35	14 16	25 11	11	♌	3	*for several*
7	S	Enurchus.	15 14	7♎10	12	2	3	*days.*
8			16 13	19 17	12	3	3	Nativ. V. M.
9	M	15 S. aft. Trin.	17 11	1♏34	13	4	D	
10	T	☉ rises 5 32.	18 9	14 3	13	5	3	
11	W		19 8	26 48	14	7	3	
12	T		20 6	9♐51	15	8	3	*Wind and rain*
13	F	☉ sets 6 22	21 5	23 14	15	9	4	□ ☿ ♂
14	S		22 3	6♑59	16	10	4	*may now be*
15			23 2	21 6	17	11	5	*expected, per-*
16	M	16 S. aft. Trin.	24 1	5♒35	17	12	6	*haps thunder.*
17	T	Lambert.	24 59	20 21	18	13	7	
18	W		25 58	5♓20	18	15	8	
19	T	Ember week	26 57	20 25	19	16	10	□ ☿ ♀
20	F		27 55	5♈25	20	17	11	*Still windy,*
21	S		28 54	20 14	20	18	12	*with flying*
22		St. Matthew	29 53	4♉42	21	19	14	*clouds.*
23	M	17 S. aft. Trin. ☉ rises 5 58	0♎52	18 45	22	20	16	K. G. 3. cro.
24	T		1 50	2♊21	22	21	17	△ ☿ ☿
25	W	Holy Cross	2 49	15 31	23	23	19	☌ ♂ ♀
26	T	St. Cyprian	3 48	28 15	23	24	21	
27	F		4 47	10♋38	24	25	22	*Rain now*
28	S	☉ sets 5 52	5 46	22 45	25	26	24	*about may be*
29								*expected.*
30	M	18 S. aft. Trin. P. R. h St. Jerome	7 44	4♌40 16 29	25 26	27 28	26 28	St. Mich. □ ♃ ♀

M D	Jupiter South	Venus South	
1	4 2 47	8m 39	New Moon 5th Day at Noon.
6	4 32	8 6	First Quarter 13th Day, at 8 Morning.
11	4 17	8 12	Full Moon 19th Day, at 11 Night.
16	4 2	8 19	Last Quarter 26th Day, at Midnight
21	3 41	8 25	1st Day ♄ S. 4m35, ♂ 10m 42. ♀ 11m52.
26	3 32	9 32	16th D. ♄ S. 3 18, ♂ 9 42. ♀ 10 55.

M D	Lunar Aspects ☉	♄	♃	♂	♀	☿	Clock slow.	Moon South	Rises & sets	Observations.
F							0 25	8m59	1m 9	
2		□		☌			0 44	9 47	2 5	On the 2d, 3d, 4th and 5th days of this month, O. S. or the 13th, 14th, 15th, and 16th, according to the New, 1666, was the famous city of London burnt by those vile incendiaries the Papists.
3			□	☍			1 4	10 32	3 4	
4						☌	1 23	11 17	4 6	
5	☌	△				☍	1 43	0 a 1	☽ sets	
6	☍		✱		✱		2 2	0 44	7a 6	
7				✱			2 22	1 28	7 29	
F							2 43	2 11	7 52	
9				□	□	✱	3 3	2 56	8 18	
10	✱	☍					3 24	3 43	8 47	
11			☌		△	□	3 44	4 32	9 18	Europe is now almost ready for division. Here is something about to break out, that will carry a strange consequence in its tail.
12	□		☍	△			4 5	5 24	9 58	
13						△	4 26	6 18	10 47	
14		△					4 47	7 16	11 43	
F	△		✱				5 8	8 15	morn.	
16		□		☍	☍		5 29	9 13	0 51	
17			□				5 50	10 11	2 5	
18		✱				☍	6 11	11 9	3 25	
19	☍		△				6 32	morn.	☽ rises	3. Cromwell died 1658
20	☌					△	6 53	0 5	6m 2	5. Bp. Bonner d. 1560
21				△			7 14	1 0	7 12	8. Geo. III. and Char. wedded 1761
F		☌				△	7 35	1 54	7 43	10. Wm. Conq. d. 1087
23	△	☌	☍	□	□		7 56	2 48	8 16	16. Geo. I. land. 1714
24							8 16	3 41	8 52	21. Ed. I. murd. 1327
25				✱	✱	□	8 36	4 33	9 34	25. Geo. II. died 1760
26	□						8 57	5 25	10 21	29. Rich. II. dep. 1399
27		✱					9 17	6 15	11 15	
28			△			✱	9 36	7 4	morn.	
F	✱			☍			9 56	7 52	0 7	
30		□		☌	☌		10 15	8 39	1 6	

M D	☿ ♎	♀ ♏	☽ ♌
1	15	29	♍
6	14	♐	4
11	14	1	4
16	14	2	3
21	13	3	3
26	13	4	3

At Country Seat, where Plenty shews her Face,
And Charity's not always in Disgrace;
Where indolent with Ease and Eating grown,
My Lord and Lady now prepare for Town: [share,
Clubs, Cards, and Routs now soon their Time will
And sink the Rents of the preceding Year.

M D	W D	Sundays and Remark. Days.	☉ long. ° ′	☽ long. ° ′	♂ ♌	♀ ♌	☿ ♍	Mutual Aspects And Weather.
1	T	Remigius	8 ♎ 43	28 ♌ 15	26	30	29	✶ ♃ ☿
2	W		9 43	10 ♍ 3	27	♍	♎	*Rather*
3	T	☉ rises 6 18	10 42	21 56	28	2	3	*windy.*
4	F		11 41	3 ♎ 57	28	3	5	*Temperate*
5	S	☉ sets 5 38	12 40	16 8	29	4	6	*and fine for*
6	☧	19 S. aft. Trin	13 40	28 29	30	6	8	Faith.
7	M		14 39	11 ♍ 2	♍	7	10	*several days.*
8	T		15 38	23 47	1	8	12	□ ♃ ♂
9	W	St. Denys	16 38	6 ♐ 45	1	9	13	
10	T	Ox. & Cam. T. b.	17 37	19 57	2	10	15	O. Mich. d.
11	F		18 37	3 ♑ 22	3	11	17	*Now more*
12	S	☉ rises 6 35	19 36	17 3	3	13	19	*unsettled,*
13	☧	20 S. aft. Trin.	20 36	0 ♒ 59	4	14	20	Tr. K. Ed. C.
14	M		21 35	15 1	4	15	22	△ ♃ ♀
15	T	☉ sets 5 19	22 35	29 35	5	16	24	♂ ☉ ☿
16	W		23 34	14 ♓ 12	6	17	25	*with wind*
17	T	Etheldred	24 34	28 55	6	19	27	*and rain.*
18	F	St. Luke	25 34	13 ♈ 39	7	20	29	
19	S		26 35	28 15	7	21	♍	*Cold rough*
20	☧	21 S. aft. Trin.	27 33	12 ♉ 38	8	22	2	*winds, and*
21	M		28 33	26 41	9	24	4	*frosty air.*
22	T	☉ rises 6 55	29 33	10 ♊ 19	9	25	5	
23	W		0 ♍ 33	23 31	10	26	7	
24	T		1 33	6 ♋ 19	10	27	8	*The weather*
25	F	K. Geo. III. acc.	2 32	18 45	11	28	10	Crispin
26	S	K. G. III. proc.	3 32	0 54	12	30	12	☽ ☿ ✶ ♂ ☿
27	☧	22 S. aft. Trin.	4 32	12 49	12	♎	13	*is likely to be*
28	M	St. Sim. & Jude	5 32	24 ♌ 38	13	2	15	△ ♄ ♂
29	T		6 32	6 ♍ 25	13	3	16	*cold and dry*
30	W	☉ sets 4 51	7 33	18 15	14	4	18	✶ ♃ ♀
31	T		8 33	0 ♎ 13	15	6	19	*to the end.*

M D	Jupiter South	Venus South	
1	3 a 17	9m 31	New Moon 5th Day, at 5 Morning.
6	3 2	9 36	First Quarter 12th Day, at 5 Afternoon.
11	2 48	9 41	Full Moon 19th Day, at 9 Morning.
16	2 33	9 46	Last Quarter 26th Day, at 6 Afternoon.
21	2 19	9 51	1st Day ♄ S. 2m 41, ♂ 9m 26, ☿ 11 m 28.
26	2 4	9 56	16th D. ♄ S. 0 42, ♂ 9 4, ☿ 0 a 8.

M D	Lunar Aspects ☉	♄	♃	♂	♀	☿	Clock slow	Moon South	Rises & sets	Observations.
1			□				10 34	9m 24	2m 6	The enemies of England are many, but the most dangerous are those domestick; people's spirits are now heated to purpose; and it requires the wisdom of the most prudent persons in many nations of Europe, to manage and carry on their own affairs. God direct his Majesty of Great Britain, and give him the fortitude and wisdom of David and Solomon.
2		△					10 52	10 9	3 10	
3			*				11 10	10 51	4 12	
4	♂					♂	11 28	11 35	5 15	
5	☽					☽	11 46	0a 19	☽ sets	
F				*	*		12 3	1 4	6a 31	
7		☿					12 19	1 50	6 58	
8			♂	□			12 36	2 39	7 29	
9	*		☽		□	*	12 52	3 30	8 7	
10							13 7	4 23	8 52	
11		△		△	△		13 22	5 17	9 43	
12	□					□	13 36	6 13	10 44	
F			*				13 50	7 10	11 52	
14	△	□				△	14 4	8 7	morn.	
15			□	☿			14 16	9 2	1 9	
16		*			☿		14 29	9 57	2 28	
17			△				14 41	10 52	3 47	
18	☿						14 52	11 46	5 9	
19	☽			△		☿	15 2	morn.	☽ rises	
F		♂			△		15 12	0 40	6a 16	
21		☉	☿	□			15 22	1 33	6 52	
22							15 30	2 27	7 33	
23	△				□		15 38	3 20	8 17	
24		*	△	*		△	15 45	4 12	9 7	
25							15 51	5 3	10 3	
26	□		△		*		15 57	5 53	11 0	
F		□				□	16 2	6 40	11 59	
28			□				16 6	7 25	morn.	
29	*	△		♂			16 10	8 9	1 2	
30				☽		*	16 12	8 53	2 5	
31			*		♂		16 14	9 36	3 9	

4. Nemrie. brought to London 1614
5. Old Parr died ætat. 152. 1635
8. Ad. Benbowdi. 1702
16. Bish. Lat. & Rid. burnt 1535
19. K. John died 1216
20. Adm. Batchen cast away 1744
22. Sir C. Shovel lost 1707
24. Bat. of Agincourt 1415
25. K. Steph. di. 1154
26. Bible trans. into English 1537

November hath xxx Days.

M D	♄ ♉	♃ ♐	☽ ♌
1	13	6	♍
6	12	7	♎
11	12	8	♏
16	11	9	♐
21	11	10	♑
26	11	11	♒

Emus howls; and now Hobgoblins rise,
Midnight Spectres of gigantic Size:
Ugh yonder Dale the Ignis Fatuus glides,
Melancholy o'er the Gloom presides.
Evenings pass with Tales of Ghosts and Elves,
Wrench take Snuff, the English hang themselves.

Sundays and Remark. Days.	☉ long. ° ′	☽ long. ° ′	♂ ♍	♀ ♎	☿ ♏	Mutual Aspects And Weather.
All Saints	9 ♏ 33	12 ♎ 22	15	7	21	
P. Ed. born	10 33	24 46	16	9	22	All Souls
23 S. aft. T. P. S. b.	11 33	7 ♐ 24	16	8	24	☌ ☉ ♄
K. Wm. landed	12 34	20 18	17	11	25	*Cold dark*
Powder Plot	13 34	3 ♑ 25	18	12	27	*weather begins*
Leonard	14 34	16 46	18	13	28	Mich. T. beg.
☉ sets 4 36	15 35	0 ♒ 17	19	14	30	*November,*
Frs. Aug. S. b.	16 35	13 58	19	16	♑	*perhaps rain*
Ld Mayor's day	17 35	27 46	20	17	3	*or sleet.*
24 S. aft. Trin	18 36	11 ♓ 42	20	18	4	
St. Martin	19 36	25 44	21	19	6	
Cam. T. div. m.	20 37	9 ♈ 53	22	20	7	☌ ♃ ☿
Britius	21 37	24 7	22	22	9	*Wind and rain*
	22 38	8 ♉ 25	23	23	10	*now about.*
Machutus	23 38	22 42	23	24	12	
☉ rises 7 38.	24 39	6 ♊ 55	24	25	13	
25 S. aft. Trin.	25 39	20 58	24	27	14	Hugh B. Lin.
	26 40	4 ♋ 46	25	28	16	*Variable wea-*
	27 41	18 15	26	29	17	*ther, but not*
Edm. K. & M.	28 41	1 ♌ 22	26	♏	18	*much wet.*
☉ sets 4 15	29 42	14 9	27	2	20	
Cecilia	☌ ♃ 43	26 35	27	3	21	Old Mart. day
St. Clement	1 43	8 ♍ 44	28	4	22	
26 S. aft. Trin.	2 44	20 41	28	5	24	
D. of Glos. b.	3 45	2 ♎ 30	29	7	25	Catherine
☉ rises 7 52	4 46	14 18	30	8	26	*Dark weather,*
	5 47	26 9	♎	9	27	*with cold rain*
Mich. Ter. ends	6 47	8 ♎ 10	1	10	28	☌ ♄ ☿
☉ sets 4 5	7 48	20 24	1	12	29	*or sleet.*
St. Andrew	8 49	2 ♏ 56	2	13	30	

M D	Jupiter South	Venus South
1	1 a 46	9m 59
6	1 30	10 2
11	1 15	10 5
16	0 59	10 8
21	0 44	10 10
26	0 28	10 13

New Moon 3d Day, at 8 at Night.
First Quarter 10th Day, at 1 Morning.
Full Moon 17th Day, at 9 Night.
Last Quarter 25th Day, at 3 Afternoon.
1st Day ☽ S. 0m 42', ♂ 8m 49, ☿ 0 a 44.
16th D. ☽ S. 10a 23, ♂ 7 48, ☿ 1 16.

M D	Lunar Aspect: ☉	☽	24	♂	♀	☿	Clock slow	Moon South	Rises & sets	Observations.
1							16 15	10m 19	4m 13	
2							16 15	11 3	5 18	
F	♂	☌		*			16 14	11 49	☽ sets	Let us endeavour to live in peace and unity, and by no means offend our superiors, or the government, and endeavour to know how to obey, as well as to command; according to the saying of a wise man's speech, they could never know to command, that know not first to obey.
4	☌					♂	16 13	0a 37	5a 32	
5			♂		*	☌	16 10	1 28	6 8	
6			☍	□			16 7	2 21	6 50	
7		*					16 3	3 15	7 41	
8	*			△	□		15 58	4 12	8 40	
9			*			*	15 53	5 8	9 45	
F	□	□			△		15 46	6 4	10 58	
11						□	15 39	6 58	morn.	
12	△	△	□	☌			15 31	7 51	0 13	
13							15 22	8 43	1 29	
14			△			△	15 12	9 35	2 48	
15		☍			☌		15 1	10 27	4 5	
16		♂					14 50	11 19	5 23	1. Lisbon destroy. 1755
F	☌	☍		△			14 38	morn.	☽ rises	5. Powder plot 1605
18	☍		☌			☌	14 24	0 12	5a 24	11. Battle of Pultowa 1715
19				□	△		14 11	1 6	6 6	13. Danes massac. 1002
20		*					13 56	1 59	6 54	16. Hen. III. died 1272
21							13 40	2 51	7 46	17. Q. Mary died 1594
22	△			*	□		13 24	3 41	8 44	20. Q. Caroline di. 1737
23		□	△				13 7	4 30	9 44	22. Porto Bello ta. 1739
F						△	12 49	5 16	10 44	28. Car. Wolsey di. 1530
25	□	△	□		*		12 30	6 0	11 46	
26							12 11	6 43	morn.	
27	*			♂		□	11 50	7 26	0 50	
28			*	☌			11 29	8 9	1 54	
29						*	11 8	8 52	2 58	
30		☌			♂		10 45	9 37	4 4	

M D	♄ ♉	♃ ♐	☽ ♌
1	10	12	♍
6	10	13	1
11	10	15	0
16	9	16	0
21	9	17	0
26	9	18	0

Now Time hath almost wheel'd around the Year,
And Cold and Holydays are drawing near:
Lay in good Store of Beef and nappy Ale,
And sparkling Wine, the Evenings to regale;
With Cheer like this, partaking with a Friend,
Huzza! my Boys, may Christmas never end!

M D	W D	Sundays and Remark. Days.	☉ long °	′	☽ long. °	′	♂ ♎	♀ ♏	☿ ♑	Mutual Aspects And Weather.
1	F	Advent Sund.	9 ♐	50	15 ♏	48	2	14	1	*Northerly*
2	M	Sun rises 7 58	10	51	29	0	3	15	2	*winds clearing*
3	T		11	52	12 ♐	30	3	17	2	*the air.*
4	W	Sun sets 4 0	12	53	26	17	4	18	3	☌ ☉ ♃
5	T		13	54	10 ♑	15	5	19	3	*Temperate and*
6	F	Nicholas	14	55	24	21	5	20	R	*fine for the*
7	S		15	56	8 ♒	30	6	22	3	*season.*
8	F	2 S. in Advent	16	57	22	40	6	23	3	Con. B.V.M.
9	M		17	58	6 ♓	49	7	24	3	*Now changes*
10	T	☉ rises 8 5	18	59	20	54	7	25	2	*to cold winds,*
11	W		20	0	4 ♈	56	8	27	2	*with sleet or*
12	T	☉ sets 3 54	21	2	18	54	8	28	1	*rain.*
13	F	Lucy	22	3	2 ♉	47	9	29	♐	
14	S		23	4	16	32	9	♐	28	
15	F	3 S. in Adv.	24	5	0 ♊	8	10	2	27	O Sapientia
16	M	Camb. T. ends	25	6	13	32	11	3	26	☌ ☉ ☿
17	T	Cxf. T. ends	26	7	26	41	11	4	24	
18	W	Ember weeks	27	8	9 ♋	34	12	5	23	*Towards the*
19	T		28	9	22	11	12	7	22	*end expect snow*
20	F	☉ rises 8 8	29	10	4 ♌	31	13	8	21	*or rain, with*
21	S	St. Thomas	0 ♑	12	16	38	13	9	20	Shortest Day
22	F	4 S. in Advent	1	13	28	34	14	10	19	*with variety*
23	M		2	14	10 ♍	23	14	12	18	
24	T	☉ sets 3 52	3	15	22	10	15	13	18	☌ ♃ ☿
25	W	Christmas day	4	16	4 ♎	2	15	14	17	*of winterly*
26	T	St. Stephen	5	17	16	2	16	15	17	✱ ♂ ♀
27	F	St. John	6	19	28	17	16	17	D	☌ ♀ ☿
28	S	Holy Innocents	7	20	10 ♏	50	17	18	17	☌ ♃ ♀
29	F	S. aft. Christmas	8	21	23	46	17	19	17	*weather.*
30	M		9	22	7 ♐	6	18	20	18	
1	T	Silvester	10	23	20	51	18	22	18	

M D	Jupiter South	Saturn South	
1	0 a 11	10 m 13	New Moon 3d Day, at 11 Morning.
6	11 54	10 17	First Quarter 10th Day, at 8 Morning.
13	11 37	10 21	Full Moon 17th Day, at 11 Morning.
16	11 20	10 25	Last Quarter 25th Day, at 1 Afternoon.
21	11 3	10 29	1st Day ♄ S. 10 a 0, ♂ 7 m 38, ☿ 1 a 31.
26	10 m 45	10 33	16th D. ♄ S. 8 6, ♂ 7 1, ☿ 0 3.

M D	Lunar Aspects. ☉	♄	♃	♂	♀	☿	Clock slow	Moon South	☽ rises & sets	Observations.
F							10 22	10m 23	5m 11	
2	♂			*			9 59	11 14	6 22	To conclude this year we may be bold to affirm, that still there is many controversies, debates, and disputes doth arise amongst men of no mean quality; yet even then, at the same time, there will be as notable endeavours to compose and settle those affairs, and not without happy success.
3	23		♂				9 34	0a 5	☽ sets	
4			○	□		♂	9 10	1 0	5a 25	
5		△			*	10	8 44	1 58	6 23	
6				△			8 18	2 55	7 28	
7	*	□	*				7 52	3 52	8 39	
F					☌	*	7 25	4 47	9 55	
9	□	*	□				6 58	5 40	11 12	
10					△	□	6 30	6 31	morn.	
11			△	♀			6 2	7 21	0 28	
12	△					△	5 34	8 11	1 42	
13		♂					5 5	9 2	2 56	
14		♀					4 36	9 53	4 10	
F				△	♀		4 7	10 45	5 23	
16	♀		♀			♀	3 38	11 37	0 30	
17	♃						3 8	morn.	☽ rises	
18				□			2 39	0 29	5a 19	
19							2 9	1 20	6 17	
20				*	△		1 39	2 10	7 10	
21			△			△	1 9	2 57	8 18	
F	△						0 39	3 43	9 21	
23			□		□	□	0 9	4 27	10 23	
24							obef. 21	5 9	11 26	
25	□			♂	*		0 51	5 51	morn.	
26			*	♃		*	1 21	6 33	0 28	
27	*						1 51	7 16	1 33	
28							2 20	8 1	2 38	
F							2 49	8 48	3 46	
30			♂			♂	3 19	9 39	4 54	
31			♃		♂	18	3 47	10 33	6 2	

Finis coronat opus.

1. Henr. I. died 1135
2. Mar. comp. inv. 1302
4. 130 sail of Dutch ships taken 1664
12. Cromwell made protector 1653
29. T. Becket mu. 1171
30 Royal Society instituted. 1660.

A Compendious Chronology of the moſt principal Epochas and Æras, with their Beginnings, reduced and fixed to the Years of the Julian Period, the Creation of the World, and to the Years before and after Chriſt.

	Julian Period	Anno Mundi	Ante Chriſt
THE Creation of the World after the Jews	952	1	3760
The Common Epocha of the Creation	765	1	3950
The ſame by the Greek Emperors	787	1	3926
The ſame in Mr. Bedford's Scripture Chronology	706	1	4007
The ſame in Biſhop Uſher's Annals	710	1	4004
The Deluge, or Noah's Flood	2362	1657	2351
Porphyrius's Caldaic Epocha	2480	1717	2200
The Aſſyrian Monarchy by Nimrod	2665	1960	2048
The Birth of Abraham	2714	2009	1999
Joſeph ſold into Egypt	2986	2281	1728
The Iſraelites 400 Years Servitude in Egypt	2819	2114	1894
The Kingdom of Argos founded by Inachus	2857	2152	1856
The Birth of Moſes	3143	2438	1571
The Kingd. of Athens founded by Cecrops	3157	2452	1556
The Iſraelites Departure out of Egypt	3219	2514	1494
Their Entrance into Canaan, or the Jubilee	3258	2553	1459
The Deſtruction of Troy	3530	2825	1183
The firſt ſabbatical Year	3260	2557	1451
The Jewiſh High Prieſthood	3300	2603	1405
The Reign of King David	3646	2941	1067
The Foundation of Solomon's Temple	3698	2993	1015
The Varronian Epocha	3960	3197	811
The Catonian Epocha	3961	3198	810
The Epocha of Nabonaſſar	3966	3261	747
The Olympiads	3938	3233	775
The Building of Rome	3962	3257	751
The Deſtruction of the Kingdom of Iſrael	3992	3287	721
The Beginning of Nebuchadonoſor	4105	3300	708
The Babyloniſh Captivity	4108	3302	706
The Deſtruction of Solomon's Temple	4126	3421	587

	Julian Period	Anno Mund	An Chri
Daniel delivered from the Den of Lions	4176	3470	53
The Temple of Jeruſalem rebuilt -	4198	3488	52
Cyrus the Founder of the Perſian Monarchy	4178	3472	53
The Regifugium Epocha - - - -	4205	3500	50
The Battle at Marathon - - - -	4223	3517	49
Xerxes's Defeat at the Battle of Salamis	4234	3528	48
The Beginning of the Peloponneſian War	4281	3575	43
Meto the Athenian began his Circle -	4282	3576	43
Daniel's 70 Weeks of Years began -	4269	3564	44
The Beginning of the Callippick Period	4383	3677	33
The Death of Alexander - - - -	4390	3684	32
The Grecian Epocha of the Seleucida	4402	3695	31
The Æra of the Aſmoneans or Maccabees	4548	3841	16
The Epocha of Simon - - - - -	4570	3865	14
The Julian Epocha, or Correct Callend.	4669	3962	4
The Beginning of the Reign of Herod	4677	3970	37
The Spaniſh Æra - - - - -	4676	3969	3
The Battle of Actium - - - -	4683	3976	31
The taking of Alexandria - - -	4684	3977	3
The Epocha of the Title of Auguſtus -	4687	3980	27
The true Birth of CHRIST - -	4710	4005	4
The Vulgar or Dionyſian Years of Chriſt	4714	4009	Anno Chriſti
The Paſſion or Death of Chriſt - -	4746	4041	33
The Deſtruction of Jeruſalem - -	4783	4078	7
The Diocleſian or Æra of Martyrs -	4997	4292	284
The Diocleſian Perſecution - - -	5015	4310	302
The Epocha of Conſtantine the Great	5019	4314	306
The Council of Nice - - - - -	5038	4333	325
The Encænia of Conſtantinople - -	5043	4338	33
Phocas makes Pope Boniface Head of the Church - - - - - - -	5319	4614	606
Mahomet broaches his Impoſture at Mecca	5321	4616	608
The Epocha of the Hegira - - -	5335	4630	622
The Epocha of Yeſdejerd - - - -	5345	4640	632
The Jellalæan or Gelælæan Epocha -	5792	5087	1079
The Epocha of the Reformation - -	6230	5525	1517
The Revolution effected by King William	6401	5696	1688
The Britiſh Epocha, or correct Kalendar	6465	5760	1752

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈									☉ in ♉								
Time from noon.	10	11	12	Ascen 1		2		3	Time from noon	10	11	12	Ascen 1		2		3
	♈	♉	♊	♋		♌		♍		♉	♊	♋	♌		♍		♎
h m	gr	gr	gr	gr	m	gr	gr		h m	gr	gr	gr	gr	m	gr	gr	
0 0	0	9	22	26	42	12	3		1 52	0	9	17	16	31	4	28	
0 4	1	10	23	27	22	13	3		1 55	1	10	18	17	11	5	29	
0 7	2	11	24	28	2	14	4		1 59	2	11	19	17	51	6	♎	
0 11	3	12	25	28	42	15	5		2 3	3	12	19	18	31	7	1	
0 15	4	13	25	29	21	15	6		2 7	4	13	20	19	12	8	2	
0 18	5	14	26	0	♌ 1	16	7		2 11	5	14	21	19	52	9	3	
0 22	6	15	27	0	40	17	8		2 15	6	15	22	20	32	9	4	
0 26	7	16	28	1	20	18	8		2 19	7	16	22	21	13	10	5	
0 29	8	17	29	2	0	18	9		2 22	8	17	23	21	54	11	6	
0 33	9	18	♋	2	39	19	10		2 26	9	18	24	22	35	11	7	
0 37	10	19	1	3	19	20	11		2 30	10	19	25	23	16	12	8	
0 40	11	20	1	3	59	20	12		2 34	11	20	25	23	57	13	9	
0 44	12	21	2	4	38	21	13		2 38	12	21	26	24	38	14	10	
0 48	13	22	3	5	17	22	14		2 42	13	22	27	25	19	14	11	
0 51	14	23	4	5	57	23	15		2 46	14	23	28	26	0	15	12	
0 55	15	24	5	6	36	23	15		2 50	15	24	29	26	42	16	12	
0 59	16	25	6	7	15	24	16		2 54	16	25	29	27	24	17	13	
1 3	17	26	6	7	55	25	17		2 58	17	26	♌	28	6	18	14	
1 6	18	27	7	8	34	26	18		3 2	18	27	1	28	47	18	15	
1 10	19	28	8	9	14	26	19		3 6	19	28	2	29	30	19	16	
1 14	20	29	9	9	53	27	19		3 10	20	29	3	0	♍ 13	20	17	
1 18	21	♊	10	10	33	28	20		3 14	21	29	3	0	55	21	18	
1 21	22	1	10	11	12	28	21		3 18	22	♋	4	1	37	22	18	
1 25	23	2	11	11	52	29	22		3 22	23	1	5	2	20	22	19	
1 29	24	3	12	12	32	♍	23		3 26	24	2	6	3	2	23	20	
1 33	25	4	13	13	12	1	24		3 31	25	3	7	3	46	24	21	
1 36	26	5	14	13	52	1	25		3 35	26	4	7	4	29	25	22	
1 40	27	6	14	14	32	2	25		3 39	27	5	8	5	12	26	23	
1 44	28	7	15	15	12	3	26		3 43	28	6	9	5	55	27	24	
1 48	29	8	16	15	51	4	27		3 47	29	7	10	6	39	27	25	
1 52	30	0	17	16	31	4	28		3 51	0	8	11	7	22	28	25	

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈									☉ in ♉								
Time from noon.		10	11	12	Ascen 1		2	3	Time from noon.		10	11	12	Ascen 1		2	3
		♈	♉	♊	♍		♍	♎			♉	♊	♍	♎		♎	♏
h	m	gr	gr	gr	gr	m	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr
3	51	0	8	11	7	22	28	25	6	0	0	6	6	0	0	24	24
3	55	1	9	12	8	6	29	26	6	4	1	7	7	0	47	25	25
4	0	2	10	13	8	50	♎	27	6	9	2	8	8	1	33	26	26
4	4	3	10	14	9	34	1	28	6	13	3	9	9	2	19	27	27
4	8	4	11	15	10	18	2	29	6	17	4	10	10	3	5	27	28
4	12	5	12	16	11	3	2	♏	6	22	5	11	11	3	51	28	29
4	16	6	13	17	11	47	3	1	6	26	6	12	12	4	37	29	♐
4	21	7	14	17	12	31	4	2	6	31	7	13	13	5	23	♏	1
4	25	8	15	18	13	16	5	3	6	35	8	14	14	6	9	1	2
4	29	9	16	19	14	1	6	4	6	39	9	15	15	6	55	2	3
4	33	10	17	20	14	46	7	5	6	44	10	16	16	7	40	2	4
4	38	11	18	21	15	31	8	6	6	48	11	17	16	8	26	3	4
4	42	12	19	21	16	16	8	7	6	52	12	18	17	9	12	4	5
4	46	13	20	22	17	1	9	8	6	57	13	19	18	9	57	5	6
4	51	14	21	23	17	46	10	9	7	1	14	20	19	10	41	6	7
4	55	15	22	24	18	32	11	10	7	5	15	21	20	11	28	7	8
4	59	16	23	24	19	17	12	11	7	9	16	22	21	12	14	8	9
5	3	17	24	25	20	4	13	12	7	14	17	23	22	12	59	8	10
5	8	18	25	26	20	49	14	13	7	18	18	24	22	13	45	9	11
5	12	19	25	27	21	35	14	14	7	22	19	25	23	14	30	10	12
5	16	20	26	28	22	20	15	14	7	27	20	26	24	15	14	11	13
5	21	21	27	28	23	6	16	15	7	31	21	27	25	15	59	12	14
5	25	22	28	29	23	51	17	16	7	35	22	28	25	16	44	13	15
5	29	23	29	♍	24	37	18	17	7	39	23	28	26	17	29	13	16
5	34	24	♌	1	25	23	19	18	7	44	24	29	27	18	14	14	17
5	38	25	1	2	26	9	20	19	7	48	25	♍	28	18	58	15	18
5	43	26	2	3	26	55	20	20	7	52	26	1	28	19	42	16	19
5	47	27	3	4	27	41	21	21	7	56	27	2	29	20	26	17	20
5	51	28	4	5	28	27	22	22	8	0	28	3	♎	21	10	18	20
5	56	29	5	5	29	13	23	23	8	5	29	4	1	21	54	18	21
6	0	30	6	6	30	0	24	24	8	9	30	5	2	22	38	19	22

TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♌								☉ in ♍							
Time from noon.	10	11	12	Ascen 1		2	3	Time from noon.	10	11	12	Ascen 1		2	3
	♌	♍	♎	♎		♏	♐		♍	♎	♎	♏		♐	♑
m	gr	gr	gr	gr	m	gr	gr	h m	gr	gr	gr	gr	m	gr	gr
3 9	0	5	2	22	38	19	22	10 8	0	2	26	13	30	13	20
3 13	1	5	3	23	22	20	23	10 12	1	3	26	14	9	14	21
3 17	2	6	3	24	5	21	24	10 16	2	4	27	14	49	15	22
3 21	3	7	4	24	48	22	25	10 20	3	5	28	15	29	16	23
3 25	4	8	5	25	32	23	26	10 24	4	5	29	16	9	16	24
3 29	5	9	6	26	15	23	27	10 27	5	6	29	16	48	17	25
3 34	6	10	7	26	58	24	28	10 31	6	7	♍	17	28	18	26
3 38	7	11	8	27	41	25	29	10 35	7	8	1	18	6	19	27
3 42	8	12	8	28	23	26	♑	10 39	8	9	2	18	48	20	28
3 46	9	13	9	29	6	27	1	10 42	9	10	2	19	27	20	29
3 50	10	14	10	29	48	27	2	10 46	10	11	3	20	6	21	♒
3 54	11	15	11	0	♍ 30	28	3	10 50	11	11	4	20	48	22	1
3 58	12	16	12	1	13	29	4	10 54	12	12	4	21	26	23	2
9 2	13	17	12	1	55	♑	4	10 57	13	13	5	22	5	24	3
9 6	14	18	13	2	36	1	5	11 1	14	14	6	22	45	24	4
9 10	15	18	14	3	18	2	6	11 5	15	15	7	23	24	25	5
9 14	16	19	15	4	0	2	7	11 9	16	16	7	24	4	26	6
9 18	17	20	16	4	41	3	8	11 12	17	17	8	24	43	27	7
9 22	18	21	16	5	23	4	9	11 16	18	17	9	25	23	28	8
9 26	19	22	17	6	4	5	10	11 20	19	18	10	26	3	29	10
9 30	20	23	18	6	45	5	11	11 23	20	19	10	26	42	♑	11
9 34	21	24	19	7	26	6	12	11 27	21	20	11	27	22	0	12
9 38	22	25	19	8	6	7	13	11 31	22	21	12	28	1	1	13
9 41	23	26	20	8	47	8	14	11 34	23	22	13	28	40	2	14
9 45	24	27	21	9	28	9	15	11 38	24	23	13	29	20	3	15
9 49	25	28	22	10	8	9	16	11 42	25	23	14	29	59	4	16
9 53	26	28	23	10	48	10	17	11 45	26	24	15	0	♑ 39	5	17
9 57	27	29	23	11	29	11	18	11 49	27	25	15	1	19	5	18
10 1	28	♎	24	12	9	12	19	11 53	28	26	16	1	59	6	19
10 5	29	1	25	12	50	12	20	11 56	29	26	17	2	39	7	20
10 8	30	2	26	13	30	13	20	12 0	30	27	17	3	19	8	21

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♎									☉ in ♏								
Time from noon.		10	11	12	Ascen. 1		2	3	Time from noon.		10	11	12	Ascen. 1		2	3
		♎	♎	♏	♐		♑	♒			♏	♏	♐	♐		♒	♓
h	m	gr	gr	gr	gr	m	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr
12	0	0	27	17	3	19	8	21	13	52	0	22	10	25	15	10	27
12	4	1	28	18	3	59	9	22	13	55	1	23	11	26	5	11	28
12	7	2	29	19	4	39	10	24	13	59	2	24	11	26	56	12	♈
12	11	3	♏	20	5	20	11	25	14	3	3	25	12	27	47	14	1
12	15	4	1	20	6	2	11	26	14	7	4	25	13	28	3	15	2
12	18	5	1	21	6	43	12	27	14	11	5	26	14	29	♑ 31	16	4
12	22	6	2	22	7	24	13	28	14	15	6	27	15	0	24	18	5
12	26	7	3	23	8	5	14	29	14	19	7	28	15	1	18	19	6
12	29	8	4	23	8	46	15	♓	14	22	8	29	16	2	13	20	8
12	33	9	5	24	9	28	16	2	14	26	9	♐	17	3	10	22	9
12	37	10	6	25	10	10	17	3	14	30	10	1	18	4	6	23	10
12	40	11	6	25	10	52	19	4	14	34	11	2	19	5	3	25	11
12	44	12	7	26	11	35	20	5	14	38	12	2	20	6	1	26	13
12	48	13	8	27	12	17	21	6	14	42	13	3	20	7	0	28	14
12	51	14	9	28	12	59	22	7	14	46	14	4	21	8	0	29	15
12	55	15	10	28	13	42	23	9	14	50	15	5	22	9	2	♓	17
12	59	16	11	29	14	26	24	10	14	54	16	6	23	10	6	2	18
13	3	17	12	♐	15	10	25	11	14	58	17	7	24	11	9	4	19
13	6	18	12	1	15	54	26	12	15	2	18	8	25	12	14	6	21
13	10	19	13	1	16	39	27	13	15	6	19	9	26	13	21	8	22
13	14	20	14	2	17	23	28	15	15	10	20	9	27	14	29	9	23
13	18	21	15	3	18	8	29	16	15	14	21	10	27	15	37	11	24
13	21	22	16	4	18	54	♒	17	15	18	22	11	28	16	46	13	26
13	25	23	16	4	19	39	1	18	15	22	23	12	29	17	58	14	27
13	29	24	17	5	20	26	2	20	15	26	24	13	♑	19	11	16	28
13	33	25	18	6	21	14	4	21	15	31	25	14	1	20	27	17	29
13	36	26	19	7	22	1	5	22	15	35	26	15	2	21	43	19	♉
13	40	27	20	7	22	49	6	23	15	39	27	16	3	23	3	21	2
13	44	28	21	8	23	37	7	24	15	43	28	17	4	24	24	22	3
13	48	29	21	9	24	26	8	25	15	47	29	18	5	25	47	24	5
13	52	30	22	10	25	15	10	27	15	51	30	18	6	27	10	26	6

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♐									☉ in ♑								
Time from noon		10	11	12	Ascen 1		2	3	Time from noon		10	11	12	Ascen 1		2	3
		♐	♐	♑	♑		♓	♉			♑	♑	♒	♈		♉	♊
h	m	gr	gr	gr	gr	m	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr
15	51	0	18	6	27	10	20	6	18	0	0	18	13	0	0	17	1
15	55	1	19	7	28	37	28	7	18	4	1	20	14	2	37	19	12
16	0	2	20	8	0	♒ 6	♈	9	18	9	2	21	16	5	19	20	13
16	4	3	21	9	1	38	1	10	18	13	3	22	17	7	58	22	14
16	8	4	22	10	3	12	3	11	18	17	4	23	19	10	31	23	15
16	12	5	23	11	4	48	5	12	18	22	5	24	20	13	7	25	16
16	16	6	24	12	6	27	7	14	18	26	6	25	22	15	37	26	17
16	21	7	25	13	8	8	9	15	18	30	7	26	23	18	7	28	18
16	25	8	26	14	9	52	11	16	18	35	8	27	25	20	35	29	19
16	29	9	27	16	11	40	12	17	18	39	9	29	27	23	0	♊	20
16	33	10	28	17	13	30	14	18	18	44	10	♒	28	25	22	1	21
16	38	11	29	18	15	27	16	20	18	48	11	1	♓	27	43	2	23
16	42	12	♑	19	17	16	18	21	18	52	12	2	2	0	♉ 0	4	24
16	46	13	1	20	19	15	20	22	18	57	13	3	3	2	16	5	25
16	51	14	2	21	21	17	21	23	19	1	14	4	5	4	27	6	26
16	55	15	3	22	23	23	23	25	19	5	15	6	7	6	33	8	27
16	59	16	4	24	25	32	25	26	19	9	16	7	9	8	39	9	28
17	4	17	5	25	27	44	27	27	19	14	17	8	10	10	43	10	29
17	8	18	6	26	29	58	28	28	19	18	18	9	12	12	42	11	♋
17	12	19	7	27	2	♓ 17	♉	29	19	22	19	10	14	14	40	12	1
17	16	20	8	29	4	38	2	♊	19	27	20	12	16	16	31	13	2
17	20	21	9	♒	7	0	3	1	19	31	21	13	18	18	20	15	3
17	25	22	10	1	9	24	5	2	19	35	22	14	19	20	5	16	4
17	30	23	11	3	11	53	7	3	19	39	23	15	21	21	52	17	5
17	34	24	12	4	14	23	8	5	19	44	24	16	23	23	33	18	6
17	38	25	13	5	16	55	10	6	19	48	25	18	25	25	13	19	7
17	43	26	14	7	19	29	11	7	19	52	26	19	27	26	49	20	8
17	47	27	15	8	22	5	13	8	19	56	27	20	28	28	22	21	9
17	51	28	16	11	24	42	14	9	20	0	28	21	♈	29	53	22	10
17	56	29	17	12	27	20	16	10	20	5	29	23	1	1	♊ 23	23	11
18	0	30	18	13	30	0	17	11	20	9	30	24	2	2	51	24	12

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, ſerving the City of *London*, &c.

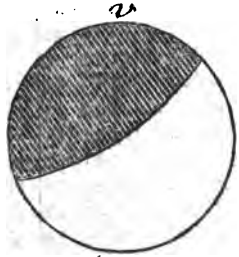
☉ in ♒													☉ in ♓											
Time from noon.			10 ♒		11 ♒		12 ♈	Aſcen. I		2 II		3 ♋	Time from noon.		10 ♓		11 ♈		12 ♉	Aſcen. I		2 ♋		3 ♌
h	m		gr		gr		gr	gr	m	gr		gr	h	m	gr		gr		gr	gr	m	gr		gr
20	9	0	24	4	2	51	24	12	22	8	0	3	20	4	45	20	8
20	13	1	25	6	4	14	25	12	22	12	1	4	21	5	35	21	8
20	17	2	27	7	5	37	26	13	22	16	2	6	23	6	23	22	9
20	21	3	28	9	6	58	27	14	22	20	3	7	24	7	12	23	10
20	25	4	29	11	8	17	28	15	22	24	4	8	25	8	0	23	11
20	29	5	♓	13	9	33	29	16	22	27	5	9	26	8	48	24	12
20	34	6	2	14	10	49	♋	17	22	31	6	10	28	9	35	25	13
20	38	7	3	16	12	3	1	18	22	35	7	12	29	10	22	26	14
20	42	8	4	18	13	14	2	19	22	39	8	13	II	11	7	26	14
20	46	9	6	19	14	24	3	20	22	42	9	14	1	11	52	27	15
20	50	10	7	21	15	32	3	21	22	46	10	15	2	12	37	28	16
20	54	11	8	23	16	40	4	21	22	50	11	17	3	13	22	29	17
20	58	12	9	24	17	46	5	22	22	54	12	18	4	14	7	29	18
21	2	13	11	26	18	51	6	23	22	57	13	19	5	14	52	♌	19
21	6	14	12	28	19	55	7	24	23	1	14	20	6	15	35	1	19
21	10	15	13	29	20	58	8	25	23	5	15	21	7	16	17	2	20
21	14	16	15	♉	22	0	9	26	23	9	16	23	8	17	1	2	21
21	18	17	16	2	23	0	10	27	23	12	17	24	9	17	44	3	22
21	22	18	17	4	23	59	10	28	23	16	18	25	10	18	26	4	23
21	26	19	19	5	24	58	11	28	23	20	19	26	11	19	9	5	24
21	30	20	20	7	25	55	12	29	23	23	20	27	12	19	52	5	24
21	34	21	22	8	26	51	13	♌	23	27	21	29	13	20	33	6	25
21	38	22	23	10	27	47	14	1	23	31	22	♉	14	21	14	7	26
21	41	23	24	11	28	42	15	2	23	34	23	1	15	21	56	7	27
21	45	24	25	13	29	36	15	3	23	38	24	2	16	22	37	8	28
21	49	25	26	14	♋	29	16	4	23	42	25	3	17	23	18	9	28
21	53	26	27	15	1	22	17	4	23	45	26	4	18	23	59	9	29
21	57	27	29	16	2	14	18	5	23	49	27	5	19	24	39	10	♍
22	1	28	♈	18	3	4	19	6	23	53	28	7	20	25	21	11	1
22	5	29	2	19	3	55	19	7	23	56	29	8	21	26	2	12	2
22	8	30	3	20	4	45	20	8	24	0	30	9	22	26	42	12	3

Of the ECLIPSES *that will happen in the Year* 1793.

FOUR times this year will the two great Lights of Heaven come within the ecliptic boundaries; twice the Sun and twice the Moon. They will happen in the following order:

The first is a partial Eclipse of the Moon, and visible here if the air proves clear; it happens on Monday, Feb. 25, at night. At the beginning of the Eclipse the Moon will be vertical in lat. 8 deg. 10m. North, and 39 deg. of East longitude from London, near the Eastern coast of Abyssinia in Ethiopia in Africa. At the middle of the Eclipse she will be vertical in lat. 8 deg. North, and long. 18 deg. 42m. East from London, which place falls near Tamalma in Ethiopia; and at the end of the Eclipse the Moon will be vertical over the Gold-Coast in Guinea, in lat. 7 deg. 48m. North, and long. 1 deg. 38m. West from London. From whence we observe, that this Eclipse will be visible quite through Africa and Europe, and the greatest part of Asia; but to the inhabitants of North and South America the Moon will rise eclipsed; Newfoundland and the Eastern coasts of the Brazils in South America excepted.

A TYPE of the MOON'S ECLIPSE.



At London the Eclipse begins at 24 min. after 9 at night; the middle, or greatest obscuration will be at 45 min. after 10; and the Eclipse ends at 6 min. after 12, apparent time; duration 2 h. 42 min. Digits eclipsed will be 6 on the Moon's north or upper limb. See the type in the margin, which is as the Moon will appear at the middle of the Eclipse.

B, shews on what part of the Moon's limb the Eclipse begins; ν, the upper point of the Moon.

The second is an invisible Eclipse of the Sun, on Tuesday the 12th day of March; the Conjunction is at 57 m. after 5 in the morning, in 22 deg. 10 min. of ♓; Latitude 39″ 40′ south.

In

In the remote Southern parts of the world, this will be a very great Eclipſe, for the Sun will be centrally and totally eclipſed at 12 at noon, in 46 deg. 30m. South Latitude, and 98 deg. Eaſt Longitude from London; but the time of total darkneſs will be of very ſmall continuance, as the apparent diameters of the Sun and Moon at that time are nearly equal. This Eclipſe will be viſible to New Holland, and all along the Eaſtern coaſt thereof, called new South Wales, which was explored in the year 1770, by the late celebrated circumnavigator Capt. Cook: On this coaſt is ſituated Botany Bay and Port Jackſon.

The third is another partial Eclipſe of the Moon, on Wedneſday the 21ſt of Auguſt. The Eclipſe begins (with reſpect to the meridian of London) at 29 min. after 1; and the end is at 17 min. after 4 in the afternoon; digits eclipſed 8° 41′ on the Moon's ſouth or lower limb. The Moon will not riſe here with us till about 7 o'clock, conſequently this Eclipſe will be inviſible. At the middle time of this Eclipſe, the Moon will be vertical to Arnheim's Land, on the Northern coaſt of New Holland, about 300 miles to the South-weſt of Endeavour Straits, in 11 deg. 14m. of South Latitude, and 136 deg. 40m. eaſt Longitude from London; conſequently, this Eclipſe will be viſible to all the unknown ſouthern parts of the world, quite round the pole itſelf; alſo to New Zealand, New Holland, and all along the Eaſtern coaſt thereof, called New South Wales, which is of 2000 miles extent, New Guinea, the Philippine Iſles, thoſe of Malacca, Borneo, Sunda, as alſo the New Hebrides and Friendly Iſles.

The fourth and laſt of theſe Eclipſes, is a notable one of the Sun, upon Thurſday September 5, in the morning, viſible in theſe parts if the air prove ſerene and favourable, and it is the greateſt Eclipſe of the Sun we have had in England ſince that of the 1ſt of April, 1764. The Eclipſe will be firſt ſeen to begin at the Sun's riſing, near the great Fiſhing Bank of Newfoundland; the central ſhade will firſt take the earth near Hudſon's Straits, in the Northern Parts of Hudſon's Bay; from whence directing its courſe South Eaſt, it paſſeth over the Southern parts of Greenland (leaving Iceland a little to

th

the North) towards the Weſtern Iſlands; from thence it paſſeth over the Northern parts of Scotland, over Denmark, Sweden, and Poland, towards the Caſpian Sea, and the Northern parts of Perſia, where it enters the Mogul Empire, and there it quits the earth with the ſetting Sun. The Moon's apparent diameter at the time of this Eclipſe, is leſs than the apparent diameter of the Sun, therefore the Eclipſe where central, will not be total; but the ſpectators all along the central track will be entertained with a beautiful ring of light quite round the Sun of near half a digit in breadth. The whole penumbra leaves the Earth, and the Eclipſe will be ſeen to end with the ſetting Sun in the Indian Sea, a little more than 100 leagues from the Southern Coaſt of Arabia, near the Iſland of Socotra.

In the South parts of this Kingdom, the Sun will be eclipſed about nine parts and a half out of twelve of the Sun's diameter, in more northerly ſituations the defect is greater; inſomuch, that in the Northern parts of Scotland, where it is annular, it amounts to 11 digits 34m. very near; but the dilatation of the annulus, occaſioned by the paſſage of the rays of light through the groſs particles of our atmoſphere, will make it appear more than half a digit in breadth.

Sun's Eclipſe, Sept. 5, 1793.

Note, *b* repreſents the point on the Sun's limb, where the Eclipſe is expected to begin; *v*, the Sun's uppermoſt point.

The annexed delineation is the appearance of the Eclipſe at the greateſt obſcuration at *London*, and may, without ſenſible error, ſerve all parts of this Kingdom ſouth of the track of annular appearance, the quantity of light excepted.

At

At London, the Eclipſe will begin at 37min. after 9 in the morning, according to apparent time. The middle, or time of the greateſt obſcuration will be at 9min. after 11; and the Eclipſe will end at 44 min. after 12 at noon. Duration of this Eclipſe will be 3 hours and 7min. Digits 9° 28′, as the above type ſheweth.

Aſtrological Judgments for the Year 1793.

AS I have given you the aſtronomical calculations of theſe Eclipſes from accurate and exact tables, ſo I will now give you my judgment of the viſible Eclipſes, in an aſtrological way, for I am of opinion that an inviſible one is detrimental to no ſort of perſons whatſoever.

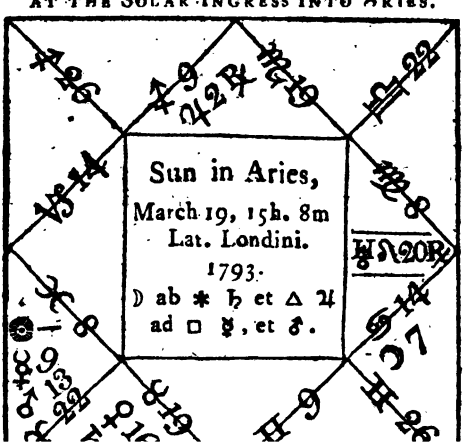
The firſt of theſe Eclipſes that are viſible to us, is that of the Moon, on Feb. 25, at 45 min. paſt 10 at night, at which time 18 deg. of Leo is on the mid-heaven, and 5 deg. of Scorpio aſcending on the eaſt. Now the eclipſed luminary is in 8 deg. of Virgo, near the meridian, and will, as I told you before, continue eclipſed 2 hours 42 min. The next viſible Eclipſe is a notable and celebrated one of the Sun, in 13 deg. of Virgo, on the 5th of September in the morning; and at the middle time of which, 30 deg. of Leo is on the medium cœli, and 13 deg. of Scorpio aſcending. The duration of this remarkable Eclipſe is more than 3 hours, which will be ſo many years in its effects, as an hour denotes one year. Now Mercury is the chief ruler of theſe Eclipſes, they being both celebrated in his domal dignities; and our great maſter Ptolomy ſaith, that when Mercury rules alone, he cauſeth quick and crafty actions on the ſtage of the world; excites men to much ſubtility; the death, or miſerable ſtate of ſome Prince, high winds, great robbing both by ſea and land, ſhipwrecks at ſea, and hereſies in religion are ſignified thereby. Theſe Eclipſes fall in a Square to the Horoſcope of Spain: Moſt wonderful it is to obſerve how the arrows of Heaven are levelled againſt that kingdom and nation, and have been ever ſince the year 1789. What can we pronounce leſs than that oppreſſion and miſery are the conſtant attendants of that Popiſh and forſaken Nation. Thus much for the Eclipſes. Now I proceed to the Four Quarters of the Year.

THI

THE WINTER QUARTER.

THE Winter Quarter begins December the 21ſt, 1793, at 35 min. paſt 1 in the morning, at which time the Sun enters the firſt ſcruple of the tropical ſign Capricorn; the mid-heaven at that inſtant is 22 deg. of Cancer, and 17 deg. of Libra is aſcending on the horoſcope, Saturn is on the cuſp of the 7th, Jupiter is in the 2d, Mars and Venus are in the 4th, the Sun and Mercury are poſited in the 3d, and the Moon in the 6th, departing from the Square of the Sun, and applying to the Square of Mercury and Conjunction of Venus; and thus are the heavens poſited at this ingreſs, in which you will ſee and hear of more violent projects and undertakings than are uſually done or expected at this ſeaſon of the year; and ſome foundation of a project now laid, which the whole year following will have a large ſhare of in every thing. Divine Providence ſeems to have ordained ſome certain kingdom or kingdoms to great troubles, if not utter deſtruction, or new modification of their conſtitution; and theſe events ſhall firſt begin from the tyranny of their Prince or Princes. Diſturbances threaten the German and Turkiſh empires; and there is ſome danger of the breach of peace, or ſome under-hand dealing of the Turks towards the Germans or Perſians.

A SCHEME OF THE HEAVENS, MARCH 19, 15 h. 8 m AT THE SOLAR INGRESS INTO ARIES.



THE SPRING QUARTER.

THE Spring Quarter commences the 20th of March, at 8 min. after 3 in the morning, at which time the Sun enters the vernal ſign Aries, when the face of the Heavens will appear as they are delineated in the above ſcheme. Mundane affairs will be attended with very great councils and conſultations, and ſuch as may ſurprize the ſpirits of ſome evil-minded perſons in our own nation; but I have reaſon, from the influences of the Planets, to hope, to the great ſatisfaction of the major part of the kingdom in general. The Conjunction of the two malevolent Planets, Saturn and Mars, now approaching, portends great contrariety in mens judgments and councils; yea, even in the grand councils of ſome nations and kingdoms. This Conjunction happens in the ſign Taurus, and is accounted the horoſcope of Ruſſia, Sweden, Poland, and Ireland, therefore theſe places will be eminently concerned in the effects thereof. The affairs of Italy are in confuſion; ſome new Prince or Governor appears in thoſe parts; perhaps a new Pope. In our own country the huſbandman meets encouragement for his painful labours, on finding no hard ſeaſon to counteract his hopes, the earth yielding her increaſe happily, and he may expect plenty of hay, &c. and all other things which the Spring affords; in which God grant no worſe news to ſucceed to this nation.

THE SUMMER QUARTER,

WHICH this year commences on Friday, June the 21ſt at 10min. paſt 1 in the morning, when the Sun enters the firſt point of the tropical ſign Cancer, which is the eſtival ſolſtice, and has then made his greateſt northern declination, viz. 23 deg. 28m. from the equator, making our longeſt day and ſhorteſt night; at which time we have about 16 deg. of Capricorn on the medium cœli, and 9 deg. of Taurus on the aſcendent. In this tropical ingreſs the Moon is in the 7th in conjunction with Jupiter, ab ☌ of ♄ et ♀; Mars and Mercury are in ♂ in the 2d and Saturn on the cuſp of the aſcendant. This poſition of Saturn cauſeth cold and dry diſeaſes, proceeding from melancholy, mixt with tough phlegm, cauſing obſtructions and indigeſtions in the ſtomach, heavineſs in the head, and windineſs in the bowels, with pains in the head, ſurfeits, &c. *cum multis aliis.*

As

As affairs now ſtand, I aſſure you that the poſitions of the Planets at this time ſignify many religious debates and controverſies, commotions, wars, ſeditions, alterations of laws and cuſtoms, and ſubverſions of rights and privileges, in all which calamities ſeveral nations of Europe will be involved; in a word, ſome matters of no ſmall moment are now upon the anvil, which ſeem to be proſecuted with uncommon ardour and reſolution.

THE AUTUMNAL QUARTER.

THIS quarter begins at ſuch time as the Sun apparently enters into the firſt ſcruple of Libra, which falls on Sunday, September the 22d, at 58 min. paſt 2 in the afternoon under the meridian of London, making now the days and nights equal all over the world, except under the Poles. At London we have 17 deg. of Virgo culminating, and 11 deg. of Capricorn aſcending; the Moon is applying to a ☌ of Saturn and a □ of Venus and Mars, and an Oppoſition of Jupiter: The laſt of theſe Planets, viz. Jupiter, is poſited in the medium Cœli. Hence we may hear of many raſh actions of the people in divers parts, both with reſpect to religion and other matters; the borders and frontiers of France may be loaded with martial evils; and a reſtleſs and deſpotic Prince is under temptation, to form ſome ill deſigns againſt a neighbouring power. Whatever the malevolent influence of the late Conjunction of Saturn and Mars hereof may produce, for there is a ſtrong poiſon and a dire tail attending its influence (whenever the wiſe Mover of all Things ſhall order it to ſting) but it is likely to fall in Italy, France, Ruſſia, Germany, or thoſe confines. Indeed, we may be aſſured, that God does not in vain demonſtrate unto mankind ſuch formidable Eclipſes (as that juſt now paſt) without actions ſucceeding them of great moment in the world.

Genethliacal Aſtrology.

THE noble and divine ſcience of Aſtrology hath many adverſaries; (by ſuch it ſuffers a deliquium) but theſe adverſaries thereto are ſuch as are ignorant in the very rudiments of that art which they would contemn, ugh they may have done laudable things in other parts

of

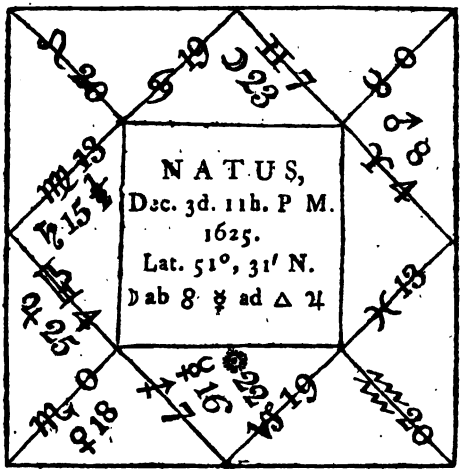
of learning, ſo conſequently their weak batteries are not likely to prevail againſt it. When I ſeriouſly conſider the ſublimity of this learning, it prevents my wonder at the contradictious cavals of the ignorant and raſh antagoniſt, whoſe dimmer eyes are unable to penetrate the ſtarry ſpheres, and thence diſcern the decrees of heaven at ſo great a diſtance. Yet it is as conſpicuous to me as the Sun in his meridian luſtre; that as all perſons are not born to one and the ſelf-ſame fate, ſo they are not heirs to one and the ſelf-ſame faith and belief. *Deniq; non omnes eadem mirantur amanq;* ſaith Horace. The Lord Bacon, in his Advancement of Learning, very juſtly imputes this difference to a ſuperior cauſe (who ſaith) in the traditions of Aſtrology the natures and diſpoſitions of men are not without truth, diſtinguiſhed from the predominancies of the Planets: As, that ſome are by nature made and proportioned for contemplation—others for matters civil—others for wars—others for advancement—others for arts—others for a changeable courſe of life, &c. Theſe things being premiſed, I come now to ſhew ſome remarkable varieties in the genethliacal part of this art, and ſuch as have gained credit with men of the beſt learning and judgment.

Something on the Nativity of Jack Adams, a native of Clerkenwell pariſh, London, who was born an ideot, or ſo great a natural, that the pariſh not only maintained him, but allowed a nurſe to attend him to preſerve him from harm, for he was ſo ſtupid as to be obliged to wear long coats. Meeting ſometime ſince with a large folio book on the Doctrine of Nativities, which came from the ſtudy of a deceaſed worthy perſon, I found ſeveral marginal notes inſerted in ſome pages, which were written by that deceaſed perſon's own hand. And in page 100, wherein the author has publiſhed ſeveral aphoriſms, tending to ſhew, That thoſe perſons who are ſo unhappy to be born when the Planet ♀ ſhall be either very weak or much afflicted, either by the Moon or other Planets, the native ſo born ſhall be one of very mean parts, a fool, an ideot, &c. upon which, that judicious and learned perſon had writ the following obſervation, to confirm the author's judgement, viz. *Virgo aſcending, and the Planet Saturn ſtationary in the aſcendant, in exact quartile of Mercury, who was combuſt in the fourth houſe, made* Jack Adams

as

an ideot, he being born December the 3d, at 11 o'clock at night, in the year of our Lord 1625.

JACK ADAMS, *an Ideot born.*



Here you see ♏ aſcending, and the Planet ♄ poſited therein, who afflicts ☿, Lord of the aſcendant with a □ aſpect; nor is that all the impediment or evil that that Planet is afflicted with, who is the native's patron; for he is alſo, not only combuſt of the Sun, but the Moon is likewiſe but newly ſeparated, and is ſtill virtually within orbs of an ☌ of ☿, Lord of the aſcendant, and that from angles too, which adds vigour to the other malignity; beſides, ☿, Lord of the aſcendant, is poſited in the ſign Sagitary, being weak there in his detriment; nor is there at the time here noted, one Planet dignified except ♂, to lend an aſſiſting help to ſoften the ſeverity of the other malevolent rays. Thoſe who pleaſe to examine the figure, may find the above rules exactly verified; and may be convinced, that there is an Aſtrology in the Heavens, able to juſtify its truth, and bid defiance to all the ſcurrilous invectives of the ignorant antagoniſts of this laudable and uſeful Science.

FINIS.

Old Poor Robin.

An ALMANACK,

COMPOSED

(According to the modern Mode of Compoſition)

ON

A Variety of Subjects, both Ancient and Modern.

And for the Reader's further Entertainment.

Part in Proſe,	Part Contemplative;
Part in Verſe;	Part Serious,
Part Narrative,	Part Comic;

FOR THE

Entertainment and Improvement of the human Mind and adapted to the meaneſt Capacity.

BEING

A *new* improved Edition of a very *old* EPHEMERIS, for the Year of our Lord, 1793.

Being the one Hundred and Thirty-firſt Edition:
The Firſt after Biſſextile or Leap Year,

And the Forty-firſt Year of the New Style in Great-Britain.

Written by POOR ROBIN, Knight of the Burnt-*Iſland*, and Well-Wiſher to the MATHEMATI[illegible]

If for the true genuine Poor Robin's Di'ry,
Or for *Moore*, or for Partridge, you ſhould make Enquiry,
He begs in particular you will take care
That you are not put off with falſe Birmingham ware.
Let him who deſpiſes all counterfeits call
For the Almanacks publiſh'd at Stationers'-Hall.

LONDON:

Printed for the Company of STATIONERS:

And ſold by R. HORSFIELD, at their Hall, in Ludgate-Street.
Price only Ten Pence for Paper, Printing, the Expence of ſetting the Preſs, the Duty for Stamps, and the immenſe Trouble of Compoſition; as he gives the Stitching gratis.

PREFACE.

Jam nova progenies cœlo demittitur alto.

Virg.

KIND cuſtomers, this art of writing
Is far more pleaſant ſure than fighting;
On mount Parnaſſus plucking poſies,
Better than getting bloody noſes.
Merry and happy ſure's the man,
Who firſt devis'd this uſeful plan;
That wiſely wrote to baniſh care,
And ſtir good humour every where.
So wiſhing all my friends may meet,
A pleaſing edifying treat;
If I can make my verſes chime,
I'll write my Preface now in rhyme:
Melodious, charming, every verſe
Rare things, or new things ſhall rehearſe.
If you expect though rhyme and reaſon,
Your expectation's out of ſeaſon;
As it is more, upon my word,
Than I can poſſibly afford:
How can I ſuch grand ſubjects handle,
By the dim light of farthing candle?
I ſhould have tapers made of wax,
A pox now take this candle tax;
That I with elegance might ſhow
How ſmoothly my chaſte numbers flow.
On ſubjects lofty how I'd ſhine,
You ſhould have ſenſe in every line,
Reaſon herſelf ſhould joy to ſee
How very clever I could be;
But as to joining rhyme and ſenſe,
In a ſmall book ſold for ten pence,
Of which four go for ſtamps to pay,
Can hardly at this time of day
Expected be, ſince it is more
Than many a folio's done before.

Thus the beginning I have pen'd,
So you are certain of the end;

End muſt whatever is begun,
But to undo, what once is done,
Has puzzled many ſapient heads,
And laid them ſleepleſs on down beds.

When I began my theme laſt year,
So noble, elegant, and clear,
On merry glee, and laughter wild,
Pleaſing to woman, man, and child;
How men have monkey-like grimaces,
And women pretty tongues and faces:
Who could have thought the end wou'd be,
A hymn on the Nativity?
And who knows, if my preſent theme,
Shall end in moral or in dream,
Patience of Job, or death of Priam,
Is wiſer, I confeſs, than I am.
Foreſight and prudence it requires
To know all this, which, who deſires,
Or thinks, to find in Robin Poor,
Is a great blockhead to be ſure.

Theſe Prefaces (ſage authors ſay,
But I confeſs 'tis not my way)
Should ſhew (and this they ne'er neglect)
What in the book you may expect.
But how a man can ope his throat,
About a book that is not wrote,
Deſcribe the ſections, ſcope and end,
When not a line of it is pen'd,
Is hard to ſay; ſo great and ſmall,
Their Prefaces write laſt of all.
But I, this abſurd ſcheme to blaſt,
Write Preface firſt and *Finis* laſt.

For a fit ſubject now to write on
This Preface, long enough to fright one.
I could do well enough for writing,
But all the plague is this inditing.
And that I ſhould by way of verſe,
Theſe matters myſtical rehearſe,
Who knows the wherefore, or the why,
Is wiſer far than you or I.

Yet I ſuppoſe a little drinking
Wou'd pleaſe me more than much dull thinking;
But the poor ſons of Phœbus muſt,
Or write, or be as dry as duſt:
And his hot godſhip, call'd Apollo,
Whom, heathens ſay, all poets follow,
Was ever infamous, for ſpoiling
The coolneſs of good wine, by boiling.
And when of warmth we've need the moſt,
He hies him to another coaſt;
When we're by January froze,
To Bay of Botany he goes.

Hail Bay of Botany! I've hit on
A ſubject rare as e'er was writ on,
Where ſummer ſun, and Chriſtmas pies
Behold together, the ſame eyes.
Then to admire the hopeful hoſt,
The knights of pad, and ſquires of poſt,
Sighing and languiſhingly greet,
The fair that once walk'd London's ſtreet;
Where formerly, as ſtory goes,
A woman walk'd without a noſe.
To think upon the hopeful breed,
That muſt ſuch ſires and dams ſucceed,
What ſons and daughters ſhall ariſe!
What bleſſings to the ſouthern ſkies!
What Miltons and what Turpins then!
Shall bleſs this auſtral race of men!
What progeny from heaven deſcend!
The breed of mortal men to mend!
Where ſuch as Barrington, and Wood
Shall labour for the publick good.
All then muſt wond'rous be and wiſe,
New arts and ſciences ſhall riſe,
New Newtons, Simpſons, Purcels, Popes,
To teach new ſyſtems, tunes, and tropes.
All crimes muſt ceaſe, old fraud muſt fail,
And Juſtice mend her broken ſcale:
Aſtrea's ſelf from heaven deſcend,
Such honeſt footſteps to attend.
No more ſhall war the peaceful plain,
Changing nations' annals ſtain;

None

None to unrighteous Mammon bow,
The golden age return muſt now:
And that will pay the nation's debt,
Then why ſhould happy Britons fret.
When vines undreſs'd are fruitful found,
And grapes in cluſters load the ground;
The fruitful ſoil no more ſhall need
The glittering plowſhare, or the ſteed;
But bearded grain in pleaſant rows,
Spontaneouſly by handfuls grows.
My readers now amaz'd cry where,
And when, ſhall all theſe things appear?
Huſh, there's ſome good, cries neighbour Kemp,
They've found out a new ſort of hemp.
But Governor Philip tells us clear,
They had not one hemp-dreſſer there,
So we're no better for't. What then?
Are all hemp-dreſſers honeſt men?
Yes, as moſt others are, cries Ned,
Who labour for their daily bread:
Theſe are the bees that feed the hive,
'Tis theſe that make the nation thrive.
Your thieves, pickpockets, pimps, and whores,
Who go to Botany by ſcores,
Your ſwindlers, gamblers, baſeborn drones,
Are plagues, by which the nation groans.
Silence, ſaid I, nor paſſions vent,
Read the debates in Parliament:
Does not our Miniſter ſo wiſe,
Whoſe well-earned fame ſalutes the ſkies,
Tell us, this colony will be
To us of great utility?
And he would have it underſtood,
He labours for the publick good.
And bleſs him, ſure he has no fault,
He's taken off one tax from malt,
So ſure the brewers will not fail
To make a little ſtronger ale:
That I, in January thinking,
May warm my poor old ſoul with drinking;
My palſied ſhaking hand may ſet,
Much nervous reaſoning you'll get;

So that all nations shall agree
No Robin ever wrote like me.
And can you think that he would send
These sinners all to the world's end,
To cost three hundred pounds a head
In carriage thither, as 'tis said?
When here in Britain, do you see?
Thousands of honest men there be:
Farmers and labourers and draftsmen,
Weavers, and other handicraftsmen;
Highlanders poor, now forc'd to roam
As outcasts from their native home,
Because their lords, who us'd to be
Their refuge in adversity,
To London hie, and live away,
To pimps and parasites a prey:
In the high road to ruin run,
And many hundreds are undone;
Or heedless of their tenants harms,
Let out to aliens their farms.
Would he, I say, who's common sense,
Send out these rogues at such expence?
When half the sum to each of those
Useful and honest men, well-chose,
Wou'd set them up, and make them be
Blessings to the Community;
In arts and honest callings toil,
And make those desert mountains smile.
How many families each day,
For this prosperity would pray?
Who now with hunger pinch'd and cold,
Are miserable young and old.
And then, in consequence of trade,
The poor and wretched happy made,
Many new families would rise,
To hail with gratitude the skies:
Unnumber'd benefits each day,
Rise every where and every way.
Here, interrupts my neighbour Ned,
Why this is just what I have said;
Is he a wiseman, who foregoes
Considerations, such as those?

And

And all, now cries my neighbour Kemp,
For ſaving of a little hemp:
There's nothing cures a rogue like hanging;
Then, why ſuch coſt to ſend them ganging?
Nothing a harden'd rogue can alter;
The only remedy's an halter.
But hold, it is not civil neighbours,
To interrupt my learned labours;
Let me without more trouble, pray,
End my own ſtory my own way.
I ſay, our government muſt have
Such reaſons, as above I gave,
Or better, if there better can
Deviſed be by wiſeſt man:
And I don't doubt but they can ſhow
Neceſſity will have it ſo.
And ſure there's no reſiſting fate,
All muſt ſubmit or ſoon or late.
'Tis the rogues plea you ſay; what then?
The plea may ſerve for honeſt men,
One good at leaſt there will ariſe,
By ſending them to Southern ſkies,
The pleaſing hope we'll entertain,
They never may come back again:
Nor mean I in the leaſt to flout them,
We've rogues enough at home without them,
Who ſhould of juſtice hold the rod,
Rank hypocrites that mock their God,
Kill-baſtard rogues, who rob the nation
Of the ſucceeding generation:
Rich rogues, that iniquity pride in;
Proud rogues, in gilded chariots riding;
Canters ſelf-ſent, who mount our roſtrums,
And quacks to poiſon us with noſtrums:
Cheats for Newmarket, Epſom, York,
Who ſtill may find the hangman work;
Thoſe who'll do any thing for rhino
And many more than you or I know.
So by your leave we now will end them,
For neither I nor you can mend them.
Thus ends my Preface, I'll be ſwore
You ſuch an one ne'er read before.

Near *Saffron-Walden*, Apr. 1, 1792. JANUAR

JANUARY hath xxxi Days.

M D	☉ Decl. South.
1	22° 57
6	22 25
11	21 41
16	20 47
21	19 43
26	18 30

Last Quarter 5
New Moon 12
First Quarter 19
Full Moon 27
} Day at { ☌ Hours, 58 M. Att. 8 — 57 M. Morn. 2 — 29 M. Morn. 3 — 34 M. Morn.

☉ enters ♒ 19 day 11 ho. 58 min. Morn.

1	21	Tu	Circumciſion
2	22	W	
3	23	Th	
4	24	F	
5	25	S	Old Chriſt. Day
6	26	F	Epiph. 12th D.
7	27	M	Plow Monday
8	28	Tu	Lucian
9	29	W	
10	30	Th	
11	31	F	
12	Ja	S	Old N. Y's. D.
13	2	F	1 S. aft. Epiph.
14	3	M	Oxford T. beg.
15	4	Tu	
16	5	W	
17	6	Th	Old twelfth day.
18	7	F	Q. Char. b. d. k.
19	8	S	
20	9	F	2 S. af. Ep. Fab.
21	10	M	Agnes Hil. 1 ret.
22	11	Tu	Vincent
23	12	W	Hil. Term beg.
24	13	Th	
25	14	F	Conv. St. Paul
26	15	S	
27	16	F	Septuag. Sund.
28	17	M	Hilary 2 return
29	18	Tu	
30	19	W	K. Ch. I. Mart.
31	20	Th	

POOR ROBIN

TURNED

QUACK-DOCTOR.

Robin would have it underſtood,
He labours for the publick good:
I pray attend both rich and poor,
You'll find a ſalve for many a ſore.
Let him who's the ſtomachick gout,
Get a full quart of mountain-ſtout,
With tanſey boil'd therein to take
Hilary Camb. Term beg.
Whenever he's the ſtomach ache;
When done, he certainly will ſay
He reaſon has for me to pray.
Priſca
To thoſe who've the Scotch fiddle got,
I recommend a brimſtone-pot,
Which with ſome ſweating, ſmelling, rubbing,
Is a fine remedy for ſcrubbing.
Let her who has St. Anty's fire
Bleed often and abſtain from ire.
Pr. Aug. Fred. bo. 1773.
Heart-burn magneſia may cure,
But old heart-burnings long endure.

Let

Obſervations in JANUARY.

M	Clock bef. ☉
1	4 22
6	6 37
11	8 41
16	10 29
21	12 0
26	13 10

Now January piercing cold,
Feels hot to neither young nor old;
So ſpit the beef and mend the fire,
Cold quaking jaws hot meat require.

D M	☽ ri. & ſ.		☉ ri. & ſ.		☽ age	
1	8	a 30	viii	iii	19	Jo. Bonſer
2	9	32	4	56	20	NedSharp
3	10	34	3	57	21	Dame
4	11	40	3	58	22	Man.
5	morn		2	58	23	Blue Hen.
6	0	47	1	59	24	Black Beſs
7	1	56	vii.	iv.	25	T. Venner
8	3	7	59	1	26	
9	4	31	58	2	27	Rare Dame,
10	5	28	57	3	28	'tis ſaid,
11	☽	ſets	56	4	29	Her huſband
12	4	a 46	55	5	N	dead,
13	6	3	54	6	1	Shelov'dhim
14	7	20	52	8	2	O moſt
15	8	39	51	9	3	dearly.
16	9	56	50	10	4	Whilſt he
17	11	9	49	11	5	had life,
18	morn		47	13	6	Like a good
19	0	18	46	14	7	wife,
20	1	26	45	15	8	She cuck-
21	2	31	43	17	9	olded as
22	3	31	42	18	10	fairly.
23	4	27	40	20	11	And nowher
24	5	18	39	21	12	conſcience
25	6	4	37	23	13	is ſo nice,
26	☽	rif.	36	24	14	She'd rather
27	5	a 13	34	26	F	whore than
28	6	14	33	27	16	marry twice.
29	7	15	31	29	17	Rare Dame,
30	8	17	29	30	18	ſo very well
31	9	21	28	32	19	reflected,
						She's for a
						methodiſt
						elected.

Venus is an evening ſtar till the 27th of May, when ſhe comes to her inferiour conjunction at 11 at night. After that a morning ſtar during the reſt of the year. *Jupiter* is a morning ſtar from the beginning of the year till May 17th, on which day he is in oppoſition or ſix ſigns in longitude diſtant from the ſun. After which he becomes an evening ſtar, till he comes in conjunction with the ſun on the 4th of December; and then he will be a morning ſtar to the end of the year.

The beſt time of the year for thoſe who are not furniſhed with good inſtruments to obtain a ſight of the Georgium Planet, ſo lately diſcovered by Dr. *Herſchel*, is during the months of January and February, but ſome kind of teleſcope muſt be made uſe of, as, I believe, it cannot be ſeen without. This gentleman has alſo diſcovered two more ſatellite

FEBRUARY hath xxviii Days.

M D	☉ Dec. South.
1	16° 52
6	15 22
11	13 45
16	12 3
21	10 16
26	8 25

Last Quarter 4
New Moon 10
First Quarter 17
Full Moon 25
} Day at
3 Hours, 38 M. Morn.
7 —— 26 M. Aftern.
6 —— 0 M. Night
10 —— 36 M. Night

☉ enters ♓ 18 day 2 ho. 46 min. Morn.

N S	O S	W D	Sundays and Holidays.	Choice Obſervations, Maxims and Tales.
1	21	F		
2	22	S	Purif. Cand. D.	Let him who ſits in elbow chair,
3	23	F	Sexageſima Su.	Blaſius Bp.
4	24	M	Hilary 3 return	Little to hope and leſs to fear,
5	25	Tu	Agatha	If he don't like ſtill to ſit there,
6	26	W		Go walk abroad and take the air,
7	27	Th		To him that's troubled with ſore eyes
8	28	F		I recommend the fat that fries
9	29	S	Hilary 4 return	From old milk cheeſe, who lives to
10	30	F	Quin. or Shr. S.	ſee
11	31	M		But drops enough, ne'er blind will be.
12	Fe	Tu	Shro. T.	Let thoſe who have St. Vitus' dance
13	2	W	Aſh Wedneſday	Old Candlemas day
14	3	Th	Valentine Bp.	That makes them ſtrangely kick and
15	4	F		prance,
16	5	S		Bleed four times, drink chalybeates,
17	6	F	1 S. in Lent	Take purges, opiates, and ſweats.
18	7	M		But mind, I write not this for
19	8	Tu		France,
20	9	W	Ember Week	Where the whole nation's got this
21	10	Th		dance.
22	11	F		To her that's troubled with ſore legs,
23	12	S		
24	13	F	2 S. in Lt. St. Matthias Pr. Ad. Fred. bo.	
25	14	M	☽ ecl. viſible	I recommend the white of eggs
26	15	Tu		Mixt with lead white, and powder'd
27	16	W		fine,
28	17	Th	Days incr. 3 ho.	But

Observations in February.

In February, I've been thinking,
If eating's good, why so is drinking,
A full quart of sack-posset hot,
Then's better than an empty pot.

M D	Clock bf. ☉
1	14 7
6	14 33
11	14 39
16	14 25
21	13 54
26	13 6

M D	☽ ris. & sets	☉ ris & sets	☽s A.	Sorry Saints, & sad sinners.
1	10 a 27	vii iv	20	Big Ben,
2	11 34	24 36	21	Boney Hum-
3	morn	23 37	22	phries.
4	0 42	21 39	23	
5	1 52	19 41	24	Now Jersey-
6	2 59	17 43	25	Combers are
7	4 3	15 45	26	as sober,
8	5 4	14 46	27	As drunken
9	5 56	12 48	28	Coblers in
10	☽ sets	10 50	N	October.
11	6 a 4	8 52	1	How charm-
12	7 24	6 54	2	ing hog, dog,
13	8 41	4 56	3	dirty swine,
14	9 56	3 57	4	Now rhyme
15	11 8	1 59	5	in Hodge's
16	morn	vi. v.	6	Valentine.
17	0 15	57 3	7	Guzman,
18	1 19	55 5	8	Don Quix-
19	2 18	53 7	9	ote
20	3 13	51 9	10	was a Spa-
21	4 0	49 11	11	nish knight,
22	4 42	47 13	12	That with a
23	5 19	45 15	13	windmill
24	☽ rises	43 17	14	needs must
25	5 a 7	41 19	F	fight.
26	6 12	39 21	16	If not in
27	7 14	38 22	17	Spain as-
28	8 20	36 24	18	suredly
				In France are
				fools as great
				as he.

Prose choice and cheap.

lites revolving round the body of the planet Saturn, nearer to him than any that were known before; as also several bright spots upon his ring, which have something like the appearance of satellites adhering to it. But upon the whole it does not seem altogether to confirm the surmise of those who formerly thought that the ring itself was nothing but a congeries of such satellites.

However, there is no doubt but this indefatigable observer, the tube of whose telescope is big enough for Poor Robin to creep through, will continue his curious labours, and give us a farther account of them.

It is also to be hoped that he will not omit to turn his eyes towards the planet Venus, and look for the Cupid that a French Gentleman, about thirty years

March hath xxi Days.

M D	☉ Decl. South.
1	7° 17
6	5 21
11	3 24
16	1 26
21	N. 32
26	2 30

Last Quarter 5
New Moon 12
First Quarter 19
Full Moon 27
} Day at { 2 Hours, 38 M. Aft. / 5 — 57 M. Morn. / 11 — 37 M. Morn. / 3 — 34 M. Aft.

☉ enters ♈ 20 Day, 3 h. 8 m. Morn.

1	18	F	David	But not drink too much ale or wine.
2	19	S	Chad	And though it hurt her may to walk,
3	20	F	3 Sun. in Lent	I'll kindly suffer her to talk,
4	21	M		To her that's troubled with the hip,
5	22	Tu		Six smarting lashes from horsewhip
6	23	W		May do some good, but be it known,
7	24	Th	Perpetua,	No hand must give them but her own.
8	25	F		Children for hooping coughs may take
9	26	S		
10	27	F	4 S. in L. Midl. S.	Plenty of Normanton spice cake.
11	28	M		So scarce and short, that search all round
12	M	Tu	Greg. ☉ ecl. inv	The town, one morsel can't be found.
13	2	W		The ague yields to bark and wine,
14	3	Th		Fever to James's powder fine.
15	4	F		The pox yields to mercurial pills,
16	5	S		Which too are good for other ills:
17	6	F	5 S. in L. St. Pat.	But death or sleep both long and sure,
18	7	M	Ed. K. of W. S.	Alone can tongues unruly cure.
19	8	Tu		My wife, who stood behind my chair,
20	9	W		I know not how long she'd stood there,
21	10	Th	Benedict	Cries, 'mong these med'cines little known,
22	11	F	Cam. Term ends	Candy'd angelico put down.
23	12	S	Oxford T. ends	And what's candy'd angelico?
24	13	F	6 S. in L. Palm S.	You fool, she cries, what don't you know?
25	14	M	Annun. Lady D.	Why is it not candy'd candy'd? So
26	15	Tu		Angelico's angelico;
27	16	W		
28	17	Th		
29	18	F	Good Friday	
30	19	S		
31	20	F	Easter Day	

Candy'd

Observations in MARCH.

M D	Clock bef. ⊙
1	12. 31″
6	21 23
11	16 6
16	8 41
21	7 10
26	5 37

Red Mars, who much delights in blustering,
Is busy now his armies musstering,
'Tis said hot punch still does no harm,
As March is seldom over-warm.

1	9 a	26	vi.	v.	19	Francis Moore.
2	10	34	32	28	20	
3	11	42	30	30	21	
4	morn		28	32	22	
5	0	50	26	34	23	
6	1	55	24	36	24	
7	2	56	22	38	25	
8	3	48	20	40	26	
9	4	34	18	42	27	
10	5	15	16	44	28	
11	☽ sets		14	46	29	
12	6 a	17	12	48	N	
13	7	35	10	50	1	
14	8	51	8	52	2	
15	10	2	6	54	3	
16	11	10	4	56	4	
17	morn		2	58	5	
18	0	19	v.	vi.	6	
19	1	10	58	2	7	
20	2	1	56	4	8	
21	2	45	54	6	9	
22	3	23	52	8	10	
23	3	58	50	10	11	
24	4	28	48	12	12	
25	4	56	46	14	13	
26	☽ ris.		44	16	14	
27	6 a	17	42	18	F	
28	7	24	40	20	16	
29	8	33	38	22	17	
30	9	41	36	24	18	
31	10	51	34	26	19	

And nowbe hold my loving coufin, You've got of forry faints a dozen. If you want more, put down thofe finners, Who eat French revolution dinners. I'd have them laugh'd at tho' I think, They only meet to eat and drink. To fing a patriotick fong, Or make a fpeech their friends among. Pray let them harmlefs crack their jokes, on

years ago, told the world that he faw fo plainly, horned like the mother Venus, and hovering over her, like other Cupids that are feen on pictures. But which is generally thought to have been only an optical illufion, as if there be any fuch fatellite belonging to that planet, it muft be of a very fingular nature indeed.

Thus far, my kind and loving cuftomers, I am got with this profe column; put it down for a wonder! I have wrote two pages and an half of it, full of truth and without one word of nonfenfe. Did you ever know me to do the like before? And do you think I fhall ever do the like again whilft my name is Robin? Upon my word thefe are queftions that you can anfwer full as well as I can; for when I begin, what may be the end, or what fubject I fhall write upon, as I have often

told

April hath xxx Days.

M D	☉ Dec. North.
1	4° 49
6	6 44
11	8 3
16	10 2
21	12
26	13 4

Last Quarter 3
New Moon 10
First Quarter 18
Full Moon 26
} Day at { 10 Hours 32 M. Aftern. / 4 — 35 M. Aftern. / 6 — 20 M. Morn. / 5 — 19 M. Morn.

☉ enters ♉ 19 day at 5 h. 51 m. Aft.

1	21	M	Easter Monday	
2	22	Tu	Easter Tuesday	Candy'd angelico so bandy'd,
3	23	W	Richard Bp.	Is then angelico that's candy'd,
4	24	Th	St. Ambrose	Well done, said I, turning about,
5	25	F	Old Lady Day	I own, my dear, you've made it out.
6	26	S		What must this candy'd stuff be put
7	27	✠	1 S. af. E. Low Sa	for?
8	28	M		The simples, fool, you've ne'er been
9	29	Tu		cut for.
10	30	W	Ox. & Ca. T. be.	So down I put, order'd by dimples,
11	31	Th		Candy'd angelico for simples;
12	A	F		Which I declare, nor think I fib,
13	2	S		I ne'er had done but for my rib.
14	3	✠	2 S. aft. Easter	She says, think not the medicine vague
15	4	M	Easter T. 1 ret.	I've known it order'd for the plague.
16	5	Tu		'Tis a rare medicine on my life,
17	6	W	Easter T. begins	If it can cure a scolding wife.
18	7	Th		I said, a greater plague needs no mas
19	8	F	Alphege	Than a vexatious noisy woman.
20	9	S		The plague to cure, and still the sc
21	10	✠	3 S. aft. Easter	The medicine's worth its weight
22	11	M	Easter T. 2 ret.	gold.
23	12	Tu	St. George	Besides, she cries, if you had sense,
24	13	W		You'd eas'ly earn us some more pen
25	14	Th	St. Mark Prs. Mary born, 1776.	
26	15	F		For I have got *John Gregory's* bill
27	16	S		That might a page or two well fill
28	17	✠	4 S. aft. Easter.	*John Gregory's* bill! what's that abo
29	18	M	Easter T. 3 ret.	She pull'd an old newsf-paper out.
30	19	Tu		Wh

Obſervations in APRIL.

M	Clock
D	bef. ⊙
1	3′ 45″
6	2 16
11	0 52
16	After.
21	1 30
26	2 27

Now April kind divides her ſhowers,
'Mong myriads of plants and flowers,
Clothes with new liveries the trees,
Sweetening the ſoft and tepid breeze.

1	11	57	♀	♀	20	
2	morn		30	30	21	On kings
3	0	58	28	32	22	and other
4	1	53	26	34	23	little folks.
5	2	40	24	36	24	People
6	3	21	22	38	25	ſhou'd differ
7	3	57	20	40	26	in opinions,
8	4	28	18	42	27	It tends to
9	4	59	17	43	28	clear the
10	☽ ſets		15	45	N	world of
11	7 a	47	13	47	1	minions:
12	8	58	11	49	2	Who're tro-
13	10	6	9	51	3	bleſome as
14	11	8	7	53	4	any race is,
15	morn		5	55	5	And wriggle
16	0	2	3	57	6	into great
17	0	49	1	59	7	folks graces.
18	1	30	♃	♃	8	And theſe as
19	2	6	57	3	9	ſoon as they
20	2	38	56	4	10	inherit,
21	3	6	54	6	11	With all
22	3	31	52	8	12	their might
23	3	56	50	10	13	beſpatter
24	4	20	48	12	14	merit.
25	☽ riſe		46	14	15	Wou'd drive
26	7 a	35	45	15	F	the ſhip on
27	8	47	43	17	17	rocks and
28	9	56	41	19	18	ſhelves,
29	11	0	39	21	19	And others
30	11	56	37	23	20	ſtarve to
						feaſt them-
						ſelves.

told you in this delectable performance, is ſometimes as much a myſtery to me, as to the man in the Moon, when there was one there; for even the exiſtence of this perſonage, ſo evidently ſeen with a bunch of ſticks upon his back, by many wiſe quick piercing eyes of my fair country-women, men and children, both young and old, ever ſince the time it is ſaid that the children of Iſrael ſtoned the man for gathering ſticks on Sundays, Saturdays I mean, have mercy on my poor head, I am ſure when I was a child my grandmother ſaid Sundays, and ſhe was as wiſe an old woman as moſt were in the corporation town where ſhe lived. And laughed at the Mayor of the town, who, in thoſe days, at a corporation feaſt, during the lifetime of Frederick Prince of Wales,

May hath xxxi Days.

M D	☉ Decl. North.
1	15° 17
6	16 44
11	18 4
16	19 16
21	20 20
26	21 15

Last Quarter 3
New Moon 10
First Quarter 18
Full Moon 25
} Day at {
4 Hours 25 M. Morn.
3 — 31 M. Morn.
0 — 53 M. Morn.
3 — 52 M. Aft.

☉ enters ♊ 20 day at 4 ho. 26 m. Aftern.

1	20	W	St. Phil. & Ja.	Where, thro' my spectacles I see
2	21	Th		Strange cures by Dr. Spillsbury,
3	22	F	Inv. of the Cr.	But when to brink of grave you're brought,
4	23	S		
5	24	F	S.af.E. Reg.S	He gives advice, but not for nought.
6	25	M	St.Jo.Evia.P.L.	Easter Term 4 return.
7	26	Tu		Here's Mr. Gratitude, who took
8	27	W		His medicines from his master's book,
9	28	Th	Holy Th. Asc.	And modestly in every town,
10	29	F	Easter T. 5 ret.	Now advertises as his own.
11	30	S		
12	M	F	Su. aft. Ascen.	Old May Day
13	2	M	Easter T. ends	Graham's celestial beds and chairs,
14	3	Tu		That set together by the ears
15	4	W		Each man and wife to make them know
16	5	Th	Oxford T. ends	They're not in heav'n but earth below.
17	6	F		
18	7	S		
19	8	F	Whit-Sunday	Qu. Charlotte b. 1744. Dunst.
20	9	M	Whit-Monday	Then here's Leake's justly famous pills,
21	10	Tu	Whit-Tuesday	Prs. Eliz. b. 1770. Cam. T. d.
22	11	W	Ember Week	A certain cure for nameless ills.
23	12	Th		And Dr. Jack, who cures these ails
24	13	F		When ev'ry other medicine fails.
25	14	S		
26	15	F	Trinity Sunday	*Augustin*, 1st Abp. of Cant'rb.
27	16	M	Venerable Bede	Here's Adams' solvent for the stone,
28	17	Tu	[Ox. T. b.	Waxing the thread of life, as shewn
29	18	W	K. Ch. II. Rest.	In case of late Lord George Germaine,
30	19	Th		Said by it to be freed from pain.
31	20	F	Trinity T. beg.	With

Obſervations in MAY 1793.

M D	Clock aft. ☉
1	3 11
6	3 41
11	3 56
16	3 57
21	3 45
26	3 19

See May kind welcome blithe and fair,
On ſtudded Carpet now appear,
Of every Hue Flowers ting'd with Gold,
And every Beauty we behold.

		IV	VII			
1	morn			21		
2	0	46	34	26	22	Theſe minions are a curſed race, All nations hiſtory diſgrace. If you the book have now before ye, Pray read out ſecond Edward's ſtory. And then you'll ſay, if you don't curſe, Minions than patriots are worſe. So pray pull no more houſes down, It frights the good, and ſpoils the town.
3	1	28	32	28	23	
4	2	5	31	29	24	
5	2	36	29	31	25	
6	3	6	27	33	26	
7	3	48	25	35	27	
8	4	3	24	36	28	
9	☽ ſets.		22	38	29	
10	7 a	52	21	39	N	
11	8	58	19	41	1	
12	9	55	18	42	2	
13	10	46	16	44	3	
14	11	31	14	46	4	
15	morn		13	47	5	
16	0	10	12	48	6	
17	0	43	10	50	7	
18	1	11	9	51	8	
19	1	35	7	53	9	
20	2	1	6	54	10	
21	2	25	5	55	11	
22	2	49	3	57	12	
23	3	17	2	58	13	
24	☽ riſes		1	59	14	
25	7 a	41	III	VIII	F	
26	8	48	58	2	16	
27	9	50	57	3	17	
28	10	44	56	4	18	
29	11	30	55	5	19	
30	morn.		54	6	20	
31	0	9	53	7	21	

Caveton.

Wales gave the following moſt ſenſible and loyal, if not prophetic toaſt.

Here's wiſhing that Prince Frederick may make a good King George the Third.

There are many more fooliſh toaſts given I fear at this time of the day, by people that think themſelves wiſer than ever folks were in generations paſt, and ſtill call themſelves patriots! Bleſs their ſapient heads!

But whither am I running? Sure I have forgot that I am famed for ſticking cloſe to my ſubject, and not making needleſs digreſſions. I was going to tell you, that I no more believed in the man in the moon, than I did in the Frenchman's Cupid, or in the natural beauty of the French woman's complexion, who daubs her face five lines thick of *rouge*.

JUNE hath xxx Days.

				☽	☉ Dec. North.
Last Quarter	1	Day at	9 hour 33 min. morn.	1	22° 9′
New moon	8		3 17 min. Aft.	6	22 44
First Quarter	16		6 0 min. Aft.	11	23 9
Full moon	24		0 8 min. morn.	16	23 23
Last Quarter	30		3 14 min. Aft.	21	23 27
☉ enters ♋ 21 day, 1 hour 10 min. morn.				26	23 21

1	21	S	Nicomede	
2	22	F	1 Sun. aft. Trin.	With dentifrices, without doubt,
3	23	M	Trinity T. 2 ret.	If you have teeth can not them out.
4	24	Tu	K. Geo. III. b.	Cephalic snuff, that's good for those,
5	25	W	Pr. E. Auguſt b.	Bonifaee.
6	26	Th		That take delight to blow their noſe.
7	27	F		Ointments for th' head the feet, the
8	28	S		pores;
9	29	F	2 Sun. aft. Trin.	Egyptian ointment for old ſores.
10	30	M		Trin. Term 3 return.
11	31	Tu	St. Barnabas	And Britiſh herb tobacco, if
12	June	W		You wou'd be ſick, come take a
13	2	Th		whiff.
14	3	F		Its virtues are by Rowley ſhown,
15	4	S		Who ſays, he thro' the world is
16	5	F	3 Sun. aft. Trin.	known.
17	6	M	St. Alban T. 4 ret.	Affirms the invention was divine,
18	7	Tu		Have mercy on his head and mine!
19	8	W	Trinity Ter. ends	Here's *baume* of life for young and
20	9	Th	Trans. Ed. K. W. S.	old,
21	10	F	Longeſt Day	And Bateman's drops by Dicey ſold;
22	11	S		Good to procure a little ſleeping,
23	12	F	4 Sun. after Trin.	When you are weary'd out with
24	13	M	Nat. of St. John B.	weeping.
25	14	Tu		Moreover, here's the *baume* of
26	15	W		health,
27	16	Th		Midſummer day.
28	17	F		For thoſe who have leſs wit than
29	18	S	St. Peter	wealth.
30	19	F	5 Sun. aft. Trin.	

Observations in JUNE.

	M D	Clock aft. Sun.	
Now on the secret shady Bush,	1	2	33
Sweet sing the Nightingale and Thrush;	6	1	42
And every Youth and every Fair	11	0	44
Admire the Beauties of the Year.	16	before	
	21	1	22
	26	2	25

1	mor.	43	III	VIII	22	Old Hemsly
2	1	10	51	9	23	Dick Franks
3	1	37	51	9	24	Hawley Philip.
4	2	5	50	10	25	Sneaker.
5	2	32	49	11	26	Squeaker.
6	3	2	48	12	27	Will. Wall.
7	3	36	48	12	28	From a bad nest.
8	☽ sets		47	13	N	To pick the best's,
9	8 a	38	46	14	1	A piece of work,
10	9	24	46	14	2	Wou'd tire a Turk.
11	10	5	45	15	3	This always drunk,
12	10	40	45	15	4	That's wife a punk.
13	11	10	44	16	5	One curing corns,
14	11	38	44	16	6	One stealing thorns,
15	morn		44	16	7	A culamite,
16	0	2	43	17	8	An hypocrite;
17	0	25	43	17	9	Is his faith right?
18	0	47	43	17	10	Who'll steal and bite?
19	1	12	43	17	11	
20	1	39	43	17	12	
21	2	10	43	17	13	
22	2	47	43	17	14	
23	☽ rises.		43	17	15	
24	8 a	30	43	17	F	
25	9	19	43	17	17	
26	10	2	43	16	18	
27	10	39	43	16	19	
28	11	9	43	16	20	
29	11	38	44	15	21	
30	morn		44	15	22	

Thus far, gentle readers, we are got, without one word of the long meal made upon cold meat at honest Mr. *Griffin's*, by the holy Mr. *Martext*, the sage *San ho*, the *eloquent* Mr. *Syntax*, and the profound Mr. *Trigon*; and before I can begin about them, pop comes the following French proverb across my *sensorium*, memory-box, or discerning faculty,

Un homme sage & prudent ne se livre point à la fantaisie d'autrui.

In English.

A wise and prudent man is not to be led by the whims of other people.

What, says I, can this plaguy French proverb come into my head for? To be sure I can have nothing to do with it, for who in this world ever took Poor Robin for a wise and prudent man. Certainly, so sure as a man is poor,

JULY hath xxxi Days.

							M D	☉ Decl. North.	
New Moon the	8	Day at	4 ho.	33 m.	Morn.		1	23°	5′
First Quarter the	16		8	54	Morn.		6	22	39
Full Moon the	23		7	22	Morn.		11	22	3
Last Quarter the	29		10	46	Aft.		16	21	17
☉ enters ♌ 22 day, at 0 hours 4 m. Afternoon.							21	20	22
							26	19	19

1	20	M		Most gladly sure they'll part with
2	21	Tu	Cam. commencem.	Visitation B. V. Mary
3	22	W	Dog Days begin.	gold,
4	23	Th	Tras. of St. Martin	To make them young again when
5	24	F	Old midsummer da.	Cambridge Term ends
6	25	S		old.
7	26	F	6 Sun. aft. Trin.	Tho. à Becket
8	27	M	Oxford Act.	Attenuating tincture mind,
9	28	Tu		And Wace's tincture for short
10	29	W		wind;
11	30	Th		A fell disease, most people die on't,
12	July	F		And so will you, you may rely
13	2	S	Oxf. Term ends	on't.
14	3	F	7 Sun. aft. Trin.	Antipertulis, Fendon's drop
15	4	M	Swithin	Design'd a shaking hand to prop.
16	5	Tu		Daffy's original elixir,
17	6	W		A purge that drives through thin
18	7	Th	♃ Stationary	and thick, Sir.
19	8	F		Corn salve by Bott; by Smith, by
20	9	S	Margaret	Kimber,
21	10	F	8 Sun. aft. Trin.	Imperial oil old joints to limber.
22	11	M	Magdalen	No springy toes, nor harden'd
23	12	Tu		knees,
24	13	W		Can stand without the use of these.
25	14	Th	St. James	Then here is English coffee still,
26	15	F	St. Anne	If you be well may make you ill.
27	16	S		The Ormskirk medicine for mad
28	17	F	9 Sun. aft. Trin.	dogs,
29	18	M		And Dr. Freeman's drops for sad
30	19	Tu		dogs,
31	20	W		

Observations in JULY.

Now in July both Young and Old,
To Liquor hot prefer the cold;
Mind, make the cold with Spirits warm,
Cold Water drinking oft does Harm.

M D	Clock ref.	
1	3	25
6	4	19
11	5	4
16	5	37
21	5	57
26	6	3

1	morn.	4	II	VIII	23	Jack Hirst
2	0	32	46	14	24	Col. Jack
3	1	1	47	13	25	Ludlow
4	1	32	47	13	26	Joice
5	2	7	48	12	27	Deboro'
6	2	48	49	11	28	Hutchinson
7	☽	sets	49	11	29	Barbara
8	7 a	58	50	10	N	Whitaker
9	8	36	51	9	1	Old Lowry
10	9	6	52	8	2	Lo here
11	9	35	53	7	3	you've got a
12	10	1	54	6	4	noble sight,
13	10	25	55	5	5	Of sinners
14	10	48	56	4	6	as e'er saw
15	11	12	57	3	7	the light.
16	11	36	58	2	8	
17	morn		59	1	9	
18	0	5	V	VII.	10	Revolution
19	0	38	2	58	11	
20	1	18	3	57	12	What good's
21	2	7	4	56	13	in the
22	3	6	5	55	14	French Re-
23	☽	rises	7	53	R	volution,
24	8 a	36	8	52	16	Is a hard
25	9	6	10	50	17	problem for
26	9	37	11	49	18	solution.
27	10	6	12	48	19	Now the
28	10	34	14	46	20	green mea-
29	11	2	15	45	21	dows gay,
30	11	33	17	43	22	Are become
31	morn.		18	42	23	wither'd
						hay.

so sure is all the world that he i
neither wise nor prudent. Besides
I have often informed my reader
that my finances were deranged
or rather, that I had none to de
range, and that my shirt was a
that wise and prudent man's th
pawnbroker's, my coat out at th
elbows sometimes, and sometime
no coat to be out at the elbows
and for that reason I never coul
be made a free-mason, because i
is a general rule of that open an
candid society, that all their mem
bers should have good coats t
wear, and waistcoats, and breeche
with money, bless us, yes, with
gold and silver in their breeche
pockets, good hats, good shoe
and buckles, and stockings, an
ruffles with shirts to them. If i
would procure me all these, to
me rare and comfortable things,
O how I should delight to be a
free-mason! But the die is cast,

AUGUST hath xxxi Days.

							☉ D	☉. Dec. North.	
New Moon	6	Day at	7 hs.	33 m.	Aft.		1	17°	52′
First Quarter	14		9	26	Aft.		6	16	32
Full Moon	21		2	46	Aft.		11	15	5
Last Quarter	28		9	18	Morn.		16	13	33
							21	11	55
							26	10	12

☉ enters ♍ 22 day, at 6 hour 28 Min. Aft.

1	21	Th	Lammas day	Here's never failing drops by Grant,
2	22	F		To drive out cold, when coal is
3	23	S		scant;
4	24	F	10 Sun. aft. Trin.	One shilling spent can do no harm
5	25	M		For drops that always keep one warm.
6	26	Tu	Trans. of our Lord	Here's Venloe's syrup good for colds,
7	27	W	Pss Amelia born	Name of Jesus.
8	28	Th		And lemon salts for iron moulds.
9	29	F		
0	30	S	St. Lawrence	
1	31	F	11 Sun. aft. Trin.	Prss of Brunswick born
2	Aug.	M	Pr. of Wales b.	Old Lammas d. [Dog d. end
3	2	Tu		Which are a secret worth unfolding,
4	3	W		And save the laundry maid from
5	4	Th	Assumption	scolding.
16	5	F	D. of York born	Here's Vandour's pills to cure weak
17	6	S		brains,
18	7	F	12 Sund. aft. Trin.	And James's for rheumatic pains;
19	8	M		Godfrey's cordial too, and that's
20	9	Tu		Most excellent for squalling brats,
21	10	W	D. of Clarence born	To end distraction, noise, and riot,
22	11	Th		And keep our wives and nurses
23	12	F		quiet.
24	13	S		With plasters, tinctures, draughts
25	14	F	13 Sun. aft. Trin.	and pills,
26	15	M		For all, and more than all our ills.
27	16	Tu		
28	17	W	St. Augustine	
29	18	Th	St. John Bapt. beh.	
30	19	F		
31	20	S		

Observations in AUGUST.

	M. Dl.	Clock. be.	☉
	1	5	51″
In mellow yellow waving Vest of Gold,	6	5	25
Studded with blue, rich August now behold,	11	4	44
With Cornucopia full of ripen'd Grain,	16	3	49
A smiling Virgin bearing up the Train.	21	2	41
	26	1	21

1	mor.	8.	IV	VII	24	Each day
2	0	41	22	38	25	now when
3	1	30	23	37	20	the weather
4	2	19	25	35	27	favours,
5	3	11	26	34	28	Farmers e-
6	☽	sets	28	32	N	new their
7	7	a 39	30	30	1	useful la-
8	8	6	31	29	2	bours,
9	8	30	33	27	3	And every
10	8	55	35	25	4	hill, and
11	9	17	37	23	5	every plain,
12	9	40	38	22	6	Produces
13	10	8	40	20	7	plenteous
14	10	38	42	18	8	loads of
15	11	14	44	16	9	grain.
16	11	57	45	15	10	And O how
17	morn.		47	13	11	jocundly
18	0	50	49	11	12	they come,
19	1	53	51	9	13	Joy'd with
20	☽	rises	53	7	14	the sound
21	7	a 6	54	6	F	of harvest
22	7	38	56	4	16	home.
23	8	9	58	2	17	The strong
24	8	38	V	VI	18	now work.
25	9	8	2	58	19	The young
26	9	39	4	56	20	now learn,
27	10	13	6	54	21	To build the
28	10	51	8	52	22	stack, and
29	11	33	9	51	23	fill the barn.
30	morn.		11	49	24	Ah! what
31	0	20	13	47	25	loud laugh
						and merry
						glee,
						We at the
						harvest sup-
						ped see!

and poor old Bob, must still be poor old Bob; for never when I was young could I ever raise two guineas to spare, to pay for admission into this unpatch'd fraternity. And though the fame of having such a noble head as Poor Robin's amongst them might have advanced their true fame, as much as building Solomon's temple, yet they never could be prevailed upon to admit me for charity. Notwithstanding all this, who can doubt but free-masonry is a truly charitable institution? Since they take such sure pains not to admit any real objects of charity amongst its members. That it is a most disinterested fraternity, preferring its own members to all mankind, is evident to all the world; for which reason, the butcher most disinterestedly turns free-mason, that he may sell his meat; the tinker, that he may

SEPTEMBER hath xxx Days.

				M D	☉ Decl. North.
New Moon	5	Day at	11 ho. 57 m. Morn.	1	8° 3′
First Quarter	13		7 52 Morn.	6	6 12
Full Moon	19		11 8 Night.	11	4 18
Last Quarter	26		11 36 Night.	16	2 23
				21	0 26
				26	1 S 31

☉ enters ♎ the 23 day at 3 Hours 58 min. Aftern.

1	21	F	14 Sun. aft. Trin.	*Giles* Ab. and C.
2	22	M	Lond. b. 1666.	This well may serve to call to
3	23	Tu	(O. S.	mind
4	24	W	Old St. Bartholom.	The miseries of human kind,
5	25	Th	Sun eclipsed visib.	But left we ran it too thread-bare,
6	26	F		With your consent we end will
7	27	S	Enurchus B.	here.
8	28			How anxiously! what care and cost
9	29	M	15 Sun. aft. Trin	*Nativity* of B. V. Mary
10	30	Tu		Men take for life, when health is
11	31	W		lost!
12	Sep.	Th		And after all return they must,
13	2	F		Full well they know, to kindred
14	3	S	Holy Cross	dust;
15	4			And yet they act, as if made sure
16	5	M	16 Sun. aft. Trin.	They might for evermore endure.
17	6	Tu	Lambert B. M.	The notion's right enough, but
18	7	W	Ember Week	then
19	8	Th		Men err about the where and
20	9	F		when;
21	10	S	St. Matthew	So heedlessly both age and youth
22	11			Neglect the most important truth.
23	12	M	17 Sun. aft. Trin.	K.G.3. cr. Equal D. & Night.
24	13	Tu		Did they use half the cost and care
25	14	W		For an hereafter to prepare;
26	15	Th	St. Cyprian M.	They all might be, or Robin lies,
27	16	F		For ever happy, good and wise.
28	17	S		
29	18		18 Sun aft. Trin.	St. Michael Pris. Royal b.
30	19	M	St. Jerome C. D.	

Observations in SEPTEMBER.

	M D	Clock aft. Sun	
	1	0'	25"
See loaded Orchards of delicious Fruit,	6	2	2
Of Tinge and Flavour, all to suit,	11	3	44
Give me enough of these, from Trouble free,	16	5	28
Great Folks may take their Pine-Apples for me,	21	7	14
	26	8	56

1	1 m.	12	V	VI	26	K. James II.
2	2	8	17	43	27	O. Cromw.
3	3	6	19	41	28	
4	☽ sets.		20	30	29	
5	6 a	41	23	37	N	
6	7	6	25	35	1	
7	7	29	27	33	2	
8	7	51	29	31	3	
9	8	19	31	29	4	
10	8	48	32	28	5	
11	9	21	34	26	6	
12	10	3	36	24	7	
13	10	48	38	22	8	
14	11	46	40	20	9	
15	morn		42	18	10	
16	0	52	44	16	11	
17	2	5	46	14	12	
18	☽ rises.		48	12	13	
19	6 a	14	50	10	F	
20	6	44	52	8	15	
21	7	17	54	6	16	
22	7	47	56	4	17	
23	8	21	58	2	18	
24	8	56	VI	V	19	
25	9	38	2	58	20	
26	10	24	4	56	21	
27	11	14	6	54	22	
28	morn		8	52	23	
29	0	9	10	50	24	
30	1	9	12	48	25	

Behold you have here A contrast rare! The one of these de-thron'd his king, And afterwards to th' block did bring; The other such a silly elf, He certainly dethron'd himself: Neither of them were fam'd for writing, Tho' both were well enough at fighting; The one a canting

sell his pots and pans; the baker, that he may sell his bread; the fishmonger, his fish; and I hope that the charity of the brotherhood carries them so far, that they will rather buy stinking meat, bad kettles, mouldy bread, and stinking fish of brother masons, than sweet and good of the non-initiated. Besides, if I had but been initiated into these mysteries, how much greater numbers of this learned work of mine would have been sold, to the utter exclusion of all the rival works of my brother almanack makers, and the emolument of my masters the worshipful Company of Stationers, at whose hall I then might have sat like an alderman dining with my brother masons. But alas! too truly said that wise mason Solomon, the poor man's wisdom is despised, and his words are not

OCTOBER hath xxxi Days.

							D	☉ Decl. South
New Moon	5	Day at	4	ho. 27	m.	M. rn.	1	3° 27′
First Quarter	12		4	46		Aft.	6	5 23
Full Moon	19		9	0		Morn.	11	7 18
Last Quarter	26		5	47		Aft.	16	9 10
							21	10 58
☉ enters ♏ 22 day at 10 ho. 56 m. Night.							26	12 42

1	20	Tu	Remigius	
2	21	W		
3	22	Th		
4	23	F		
5	24	S		
6	25	F	19 Sun. aft. Trin.	
7	26	M		
8	27	Tu		
9	28	W	St. Denys	
10	29	Th	Ox. and C. T. beg.	
11	30	F		
12	Oct.	S		
13	2	F	20 Sun. aft. Trin.	
14	3	M		
15	4	Tu		
16	5	W		
17	6	Th	Etheldred	
18	7	F	St. Luke.	
19	8	S		
20	9	F	21 Sun. aft. Trin.	
21	10	M		
22	11	Tu		
23	12	W		
24	13	Th		
25	14	F	K. Geo. III. ac.	
26	15	S	K. Geo. III. procl.	
27	16	F	22 Sun. aft. Trin.	
28	17	M	St. Simon and Jude	
29	18	Tu		
30	19	W		
31	20	Th		

Serious Reflections.

And now my ſportive rhyming muſe,
Let us a ſerious ſubject chuſe:
Faith V.
A catalogue of all diſeaſes,
He may be merry with that pleaſes;
But ſure the ills of human life,
Old Michaelmas day
The diſappointments, ſtrife,
Fr. of K. Edw. Confeſſor
The cares that vex, the pains that gall;
No laughing matters are at all.
They may be bleſſings in diſguiſe,
To thoſe that ſee thro' wiſdom's eyes,
Yet ſpite of what the Stoics call
Man's fortitude, they've none at all:
'Tis true religion that muſt teach,
The pang-ſtruck pining, ſinking wretch,
That they are ſent, by way of trial,
Criſpin Mart.
Patience to teach, and ſelf-denial;
When ſmarting by affliction's rod,
Submiſſively to truſt in God:

Observations in OCTOBER.

Let others ſing the Olive-tree and Vine,
In Southern Climates yielding Oil and Wine;
I hope a plenteous barley crop not fail,
But yield us Store of ſtrong October Ale.

M D	Clock aft. Sun
1	10′ 33″
6	12 2
11	13 21
16	14 28
21	15 ☉ 21
26	15 57

1	2 m.	8	VI	V	26	hypocrite,
2	3	11	16	44	27	That trampled on all
3	4	12	18	42	28	law and right.
4	☽ ſets		20	40	29	For villany
5	6 a	8	22	38	N	and murder paſt,
6	6	32	24	36	1	What do you think
7	7	0	26	34	2	he got at laſt?
8	7	32	28	32	3	A conſcience ever
9	8	10	29	31	4	him alarming
10	8	54	31	29	5	With fears,
11	9	45	33	27	6	againſt which
12	10	46	35	25	7	there's no
13	11	55	37	23	8	arming.
14	morn		39	21	9	Stranger to
15	1	9	41	19	10	comfort and
16	2	27	43	17	11	delight,
17	3	46	45	15	12	No reſt he
18	☽ rites		47	13	13	got by day,
19	5 a	49	49	11	F	or night.
20	6	21	51	9	15	The other
21	6	56	53	7	16	by hot
22	7	36	55	5	17	bigotſ led,
23	8	21	56	4	18	Was very
24	9	11	58	2	19	timely bro't
25	10	6	VII	IV	20	to bed.
26	11	3	2	58	21	
27	morn		4	56	22	
28	0	2	6	54	23	
29	1	3	8	52	24	
30	2	6	9	51	25	
31	3	9	11	49	26	

heard. But whether the whole world be altogether of this opinion, I cannot poſitively ſay, there is, however, no harm in trying.

A friend of mine, having occaſion to croſs the county of Leiceſter upon a journey, wanted ſome account of it: I therefore reached down a book, which did not happen then to be among the reſt at the pawnbroker's, intituled the Natural Hiſtory of England, by Benjamin Martin, who, I ſuppoſe, was a very rich man, in compariſon of Poor Robin, and might be a maſon for any thing I knew to the contrary.

Looking over this learned author's account of the rivers there, I found the following ſingular account of the Soar; and which all my readers too may find, if they pleaſe to turn to the ſame page in the ſame book.

NOVEMBER hath xxx Days.

M D	☉ Dec. South.
1	14° 41′
6	16 13
11	17 39
16	18 57
21	20 6
26	21 6

New Moon 3 — First Quarter 11 — Full Moon 17 — Last Quarter 25 — Day at: 8 h. 26 m. Aftern. | 9 44 Morn. | 8 46 Aftern. | 2 47 Aftern.

☉ enters ♐ 22 day at 7 hour 8 min. Afternoon.

1	21	F	All Saints.	
2	22	S	Pr. Edw. born	All Souls
3	23	F	23 Sun. aft. Trin.	Ps. Sophia b. Mor. of A.S. 1 r.
4	24	M	K. Wm. landed	To raise our thoughts from earth to heaven,
5	25	Tu	Powder Plot	Forgive, in hopes to be forgiven.
6	26	W	Leon. Mich. T. be.	Freedom and health are valued most,
7	27	Th		When health and freedom both are left.
8	28	F	Prs. Aug. Soph. b.	
9	29	S	Lord Mayor's day	
10	30	F	24 Sun. aft. Trin.	When all the splendor of the earth
11	31	M	St. Martin	Attends nobility of birth,
12	Nov. 1	Tu	Cam. T. d. m.	Morr. of St. Martin 2 ret.
13	2	W	Britius	At home, abroad, and all around,
14	3	Th		Health and prosperity abound,
15	4	F	Machutus.	When all he hears of, sees, or knows,
16	5	S		And wishes in abundance flows;
17	6	F	25 S. af. Tr. Hugh	When those he never saw before,
18	7	M	In 8 d. St. M. s re.	And those he wants to see no more,
19	8	Tu		All with one voice declare around,
20	9	W	Edmund K. & Mar.	They are his humble servants bound,
21	10	Th		Parsons may preach, and poets write,
22	11	F	Cecilia. O. Mart.	Whate'er displeases him he'll slight.
23	12	S	St. Clement	No charms for him has future bliss,
24	13	F	26 Sun. aft. Trin.	He wants no other world but this.
25	14	M	D. et Glo. b. Cath.	
26	15	Tu		
27	16	W		
28	17	Th	Mich. Term end	
29	18	F		
30	19	S	St. Andrew	

Obſervations in NOVEMBER.

M D	Clock aft. Sun.
1	16' 14"
6	16 7
11	15 38
16	14 49
21	13 40
26	12 10

In this ſad Month the Woods and Orchards bear,
Strip'd of their Summer Liveries appear,
The Birds in Flocks to Southern Climates fly,
And lowing Cattle to their Fodder hie.

1	4m	13			27	And found
2	5	18	15	45	28	at laſt with
3	D	ſets	17	43	N	care and
4	5	2 35	18	42	1	coſt,
5	6	16	20	40	2	He'd totally
6	6	53	22	38	3	three king-
7	7	43	24	36	4	doms loſt.
8	8	42	25	35	5	Hypocriſy,
9	9	50	27	33	6	pride and
10	11	0	29	31	7	ambition,
11	morn		30	30	8	Rank bigo-
12	0	14	32	28	9	try and ſu-
13	1	31	33	27	10	perſtition,
14	2	47	35	25	11	Tho' con-
15	4	4	37	23	12	traries
16	5	20	38	22	13	have been
17	D	riſes	40	20	F	comblin'd,
18	5	2 27	41	19	15	To the con-
19	6	10	42	18	16	fuſion of
20	6	58	44	16	17	mankind,
21	7	50	45	15	18	And made
		47	47			them drink
		45	48			as bitter
		46				potions,
		4				As modern
	morn					levelling
	0					falſe no-
	1					tions
						So

The chief rivers are, the Avon, Soar, Anker, and Welland, of which the Soure or Soar is the principal, anciently called the Leire, which riſing with a double head on the north ſide of the county, runs with a broad current through the middle of the county, by Loughborough, and thence to Leiceſter, receives in its paſſage the Senſe and the Wreke, and empties itſelf near Woolſey, on the borders of Warwickſhire. So far Mr. Martin.

Poor Robin ſays, that the Soar riſes from a double head on the ſouthern ſide of the county near the borders of Warwickſhire, runs from thence to Leiceſter which it paſſes with a deep and narrow ſtream, and from thence Loughborough to Normanton Soar; after which, it di- the counties of Leiceſter Nottingham, till it empties ſelf into the great river Trent.

DECEMBER hath xxxi Days.

New Moon	3	Day at	10 ho.	47 m.	Morn.
First Quarter	10		8	29	Morn.
Full Moon	17		10	52	Morn.
Last Quarter	25		0	32	Aftern.

☉ enters ♑ 21 day at 7 h. 29 m. Morn.

D	☉ Decl. South
1	21° 57′
6	22 36
11	23 5
16	23 22
21	23 28
26	23 21

1	20	F	Advent Sunday	Around his table. Then whilſt he
2	21	M		Is rack'd with pain and miſery;
3	22	Tu		He'll own no ſtate's here certain, nor
4	23	W		This world the place he took it for.
5	24	Th		Bitter for ſweet to us ſo ſpir'd,
6	25	F	Nicholas. ☿ Stat.	To wean us from the preſent world;
7	26	S		
8	27	F	2 Sun. in Advent	Conception of V. Mary
9	28	M		On which we're apt too much to doat;
10	29	Tu		'Tis of life's curve the aſymptote.
11	30	W		For perfect bliſs is here the ſweet,
12	Dec.	Th		We may approach, but never meet.
13	2	F	Lucy	We travel, think we nearer come,
14	3	S		But here can't reach our proper home.
15	4	F	3 Sun. in Advent	The wiſeſt are but fools, who've known
16	5	M	O ſapi. Cam. T. e.	
17	6	Tu	Oxf. Term ends	
18	7	W	Ember week	
19	8	Th		
20	9	F		
21	10	S	St. Thomas	Shorteſt day
22	11	F	4 Sun. in Advent	All other countries but their own,
23	12	M		Why ſhould we then employ our cares,
24	13	Tu		Alone on trifling light affairs?
25	14	W	Chriſtmas day	He, who the ravens feed, has told
26	15	Th	St. Stephen	Us, he provides for young and old.
27	16	F	St. John	Then, let it be of life the plan,
28	17	S	Innocents	For all to do what good they can.
29	18	F	Sund. aft. Chriſtm.	
30	19	M		
31	20	Tu	Silveſter	

Observations in DECEMBER.

Now o'this Month's have run their deſtin'd Race,
December laſt comes on with creeping Pace;
Ye Rich and Great, the Poor to ſhield from Harm,
Let Heaven-born Charity your Boſoms warm.

M	D	Clock aft. Sun.
	1	10 22
	6	8 18
	11	6 2
	16	3 37
	21	1 9
	26	1 bef. 20

2	5 m. 9	VII	IV	28	J. Partridge	
2	☽ ſets 58		2	29	Hen. Season	
3	4 a 40	59	I	N	Aſtrology.	
4	5 27	VIII	III	1		
5	6 25	1	59	2	The antient Robins, as we ſpell aſſeſs, So ſpelt Aſtrology a double s, The wight who with this art his conſcience fears, Deſerves a good long pair of aſſes ears.	
6	7 29	2	58	3		
7	8 40	3	57	4		
8	9 55	3	57	5		
9	11 10	4	56	6		
10	morn	5	55	7		
11	0 26	5	55	8		
12	1 40	6	54	9		
13	2 54	6	54	10		
14	4 7	7	53	11		
15	5 19	7	53	12		
16	☽ riſes	7	53	13		
17	4 a 36	8	52	F		
18	5 26	8	52	15	T. Gadbury	
19	6 21	8	52	16	W. Andrew	
20	7 19	8	52	17	J. Sharp	
21	8 21	8	52	18	S. Pearſe	
22	9 22	8	52	19	M. Coley	
23	10 22	8	52	20	E. Sibley	
24	11 24	8	52	21	I. Wright	
25	morn	7	53	22	And the reſt of them, Make your beſt of them.	
26	0 28	7	53	23		
27	1 31	7	53	24		
28	2 37	6	54	25		
29	3 44	6	54	26		
30	4 52	6	54	27		
31	6 1	5	55	28		

And now, my kind and gentle readers, take which account you pleaſe, either that, according to the ſage Mr. Martin, the Sun riſes in the northern part of the county, runs all the way up hill to Loughborough and Leiceſter, and from thence to near Woolſey, where it empties itſelf (into a chamber-pot perhaps, for) Mr. Martin has forgot to tell us what it empties itſelf into; or, the account by Poor Robin, which has nothing in the world but the plain truth to recommend it.

And you will find in the ſecond part of this my ſo delectable performance, opinions concerning other things quite as contradictory to thoſe advanced by people that think themſelves much greater than Mr. Martin. And my readers are left juſt at the ſame liberty, to believe either them, or Poor Old Robin, when he ſpeaks the truth, and ſhames the devil.

A TABLE of Terms and their Returns 1793.

Very neceſſary for all thoſe who are ſo unfortunate as to be obliged to go to Law.

Hilary Term begins Jan. 23, ends Feb. 12.

Returns or Eſſoign Days.		Ex.	Ret	Ap.	W. D
On the Octave of St. Hillary,	Jan. 20	21	22	23	Wedn.
In 15 days from the day of St. Hillary,	27	28	29	30	Wedn.
On the Mor. of the Purif. B. V. M.	Feb. 3	4	5	6	Wedn.
On the Octave of the Purif. B. V. M.	9	10	11	12	Tues.

Eaſter Term begins April 17, ends May 13.

In 15 Days after Eaſter	April 14	15	16	17	Wedn.
In 3 weeks from Eaſter day	21	22	23	24	Wedn.
In 1 Month from Eaſter day	28	29	30	M 1	Wedn.
In 5 Weeks from Eaſter day	May 5	6	7	8	Wedn.
On the Morrow of the Aſcenſion	10	11	12	13	Mond.

Trinity Term begins May 31, ends June 19.

On the morrow of the Holy Trinity	May 27	28	29	31	Friday
On the Octave of the Holy Trinity	June 2	3	4	5	Wedn.
In 15 Days from the Holy Trinity	9	10	11	12	Wedn.
In 3 Weeks from the Holy Trin.	16	17	18	19	Wedn.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the morrow of All Souls,	Nov. 3	4	5	6	Wedn.
On the morrow of St. Martin,	12	13	14	16	Satur.
On the Octave of St. Martin.	18	19	20	21	Thurſ.
In 15 Days of St. Martin,	25	26	27	28	Thurſ.

N. B. No ſittings in Weſtminſter-hall on Aſcenſion Day, Midſummer Day, and the 2d of February.

The Exchequer opens eight days before any Term, except Trinity, before which it opens but four days.

Note, That the firſt and laſt days of every Term, are the firſt and laſt days of appearance.

To honeſt Lawyers I'm ſo civil
To own them for a needful Evil.

POOR ROBIN,

1793.

PART THE SECOND.

Containing as much Aſtrology as is neceſſary, for a performance of this kind, and no more than the truth; which gives it by much the preference to all other annual prognoſtications: with ſuch tables, and obſervations, as (added to the firſt part) are highly uſeful to all aſtronomers, aſtrologers, accomptants, chronologers, and politicians.

Golden Number 8	Cycle of the Sun 10	Number of Direction 11
The Epact - 17	Roman Indict. 11	Dominical Letter F.

ASTRONOMICAL CHARACTERS,

Planets	Signs *of the* Zodiac.
☉ The Sun.	♈ Aries.
☽ The Moon.	♉ Taurus.
☿ Mercury.	♊ Gemini.
♀ Venus.	♋ Cancer.
♂ Mars.	♌ Leo.
♃ Jupiter.	♍ Virgo.
♄ Saturn.	♎ Libra.
☊ Aſcending Node.	♏ Scorpio.
☋ Deſcending Node.	♐ Sagittarius.
☌ Conjunction.	♑ Capricorn.
☍ Oppoſition.	♒ Aquarius. ♓ Piſces.

THE ANATOMY.

A ſcheme ſo contriv'd, that by day and by night,
Who ſtudies the moſt, will be fartheſt from right.

A correct TABLE *of the* MOON'S SOUTHING *calculated*

one who has any thing to do with

M. D.	Jan. H.	M.	Feb. H.	M.	March H.	M.	April H.	M.	May. H.	M.	June. H.	M.
1	2	M. 46	3	M. 30	2	M. 15	3	M. 37	4	M. 27	6	M. 6
2	3	30	4	16	3	0	4	32	5	25	6	56
3	4	13	5	2	3	49	5	29	6	21	7	46
4	4	56	5	51	4	40	6	26	7	15	8	36
5	5	41	6	43	5	33	7	23	8	8	9	25
6	6	27	7	38	6	29	8	19	9	0	10	15
7	7	15	8	36	7	27	9	15	9	51	11	5
8	8	7	9	36	8	25	10	9	10	42	11	55
9	9	3	10	37	9	23	11	2	11	32	0	A. 46
10	10	2	11	39	10	22	11	54	0	A. 23	1	35
11	11	3	0	A. 37	11	19	0	A. 47	1	15	2	23
12	0	A. 5	1	33	0	A. 15	1	39	2	6	3	10
13	1	6	2	26	1	8	2	30	2	56	3	56
14	2	4	3	18	2	1	3	21	3	45	4	40
15	2	59	4	8	2	52	4	12	4	33	5	23
16	3	52	4	57	3	43	5	1	5	19	6	5
17	4	42	5	46	4	33	5	49	6	4	6	48
18	5	30	6	35	5	23	6	36	6	48	7	33
19	6	18	7	24	6	12	7	22	7	31	8	20
20	7	6	8	12	7	0	8	7	8	15	9	10
21	7	53	8	59	7	47	8	51	9	0	10	3
22	8	41	9	46	8	34	9	35	9	47	11	0
23	9	29	10	32	9	20	10	20	10	36	11	59
24	10	17	11	17	10	5	11	7	11	28	Morn.	
25	11	4	Morn.		10	49	11	55	Morn.		1	0
26	11	50	0	1	11	33	Morn.		0	23	2	0
27	Morn.		0	45	Morn.		0	45	1	29	2	58
28	0	35	1	30	0	19	1	38	2	19	3	54
29	1	20			1	6	2	33	3	18	4	47
30	2	3			1	54	3	30	4	16	5	39
31	2	46			2	44			5	12		

for the YEAR *of our* LORD, 1793, *highly neceſſary for every her either by Land or Water.*

M. D.	July. H.	M.	Aug. H.	M.	Sept. H.	M.	Oct. H.	M	Nov. H.	M	Dec. H.	M.
1	6	M. 28	7	M. 41	8	M. 59	9	M. 24	10	M. 19	10	M. 23
2	7	17	8	31	9	47	10	9	11	3	11	14
3	8	7	9	20	10	32	10	51	11	49	0	A. 5
4	8	56	10	9	11	17	11	35	0	A. 37	1	0
5	9	45	10	56	0	A. 1	0	A. 19	1	28	1	58
6	10	35	11	43	0	44	1	4	2	21	2	55
7	11	25	0	A. 28	1	28	1	50	3	16	3	52
8	0	A. 13	1	13	2	11	2	39	4	12	4	47
9	1	0	1	56	2	56	3	30	5	8	5	40
10	1	46	2	39	3	43	4	23	6	4	6	31
11	2	31	3	21	4	32	5	17	6	58	7	21
12	3	14	4	5	5	24	6	13	7	51	8	11
13	3	57	4	51	6	18	7	10	9	43	9	2
14	4	40	5	39	7	16	8	7	9	35	9	53
15	5	23	6	30	8	15	9	2	10	27	10	45
16	6	8	7	24	9	13	9	57	11	19	11	37
17	6	55	8	21	10	11	10	52	Morn.		Morn.	
18	7	46	9	21	11	9	11	46	0	12	0	29
19	8	41	10	22	Morn.		Morn.		1	6	1	20
20	9	37	11	22	0	5	0	40	1	59	2	10
21	10	37	Morn.		1	0	1	33	2	51	2	57
22	11	38	0	21	1	54	2	27	3	41	3	43
23	Morn.		1	18	2	48	3	20	4	30	4	27
24	0	39	2	13	3	41	4	12	5	16	5	9
25	1	38	3	6	4	33	5	3	6	0	5	51
26	2	35	3	58	5	25	5	53	6	43	6	33
27	3	29	4	50	6	15	6	40	7	26	7	16
28	4	21	5	41	7	4	7	25	8	9	8	1
29	5	17	6	32	7	52	8	9	8	52	8	48
30	0	1	7	22	8	39	8	53	9	37	9	39
31	6	51	8	11			9	36			10	33

NOVEMBER hath xxx Days.

						M D	☉ Dec. South.	
New Moon	3	Day at	8 ho.	26 m.	Aftern.	1	14°	41′
First Quarter	11		0	44	Morn.	6	16	13
Full Moon	17		8	46	Aftern.	11	17	39
Last Quarter	25		2	47	Aftern.	16	18	57
						21	20	6
						26	21	6

☉ enters ♐ 21 day at 7 hour 8 min. Afternoon.

1	21	F	All Saints.	
2	22	S	Pr. Edw. born	All Souls
3	23	F	23 Sun. aft. Trin.	Ps. Sophia b. Mor. of A.S. 1 r.
4	24	M	K. Wm. landed	To raise our thoughts from earth to heaven,
5	25	Tu	Powder Plot	Forgive, in hopes to be forgiven.
6	26	W	Leon. Mich. T. be.	Freedom and health are valued most,
7	27	Th		When health and freedom both are lost.
8	28	F	Prs. Aug. Soph. b.	
9	29	S	Lord Mayor's day	
10	30	F	24 Sun. aft. Trin.	When all the splendor of the earth
11	31	M	St. Martin	Attends nobility of birth,
12	Nov.	Tu	Cam. T. d. m.	Morr. of St. Martin 2 ret.
13	2	W	Britius	At home, abroad, and all around,
14	3	Th		Health and prosperity abound,
15	4	F	Machutus.	When all he hears of, sees, or knows,
16	5	S		And wishes in abundance flows;
17	6	F	25 S. af. Tr. Hugh	When those he never saw before,
18	7	M	In 8 d. St. M. 3 re.	And those he wants to see no more,
19	8	Tu		All with one voice declare around,
20	9	W	Edmund K. & Mar.	They are his humble servants bound,
21	10	Th		Parsons may preach, and poets write,
22	11	F	Cecilia. O. Mart.	Whate'er displeases him he'll slight.
23	12	S	St. Clement	No charms for him has future bliss,
24	13	F	26 Sun. aft. Trin.	He wants no other world but this.
25	14	M	D. of Glo. b. Cath.	In 15 days of St. Mart. 4 ret.
26	15	Tu		But shou'd misfortune's fearful band,
27	16	W		True daughters of misconduct stand
28	17	Th	Mich. Term ends	
29	18	F		
30	19	S	St. Andrew	

Obſervations in NOVEMBER.

	M	D	Clock aft. Sun.
In this ſad Month the Woods and Orchards dreary,		1	16 14
Strip'd of their Summer Liveries appear,		6	16 7
The Birds in Flocks to Southern Climates fly,		11	15 58
And lowing Cattle to their Fodder hie.		16	14 49
		21	13 40
		26	12 10

1	4m	13	14	14	27	And found
2	5	18	15	45	28	at laſt with
3	☽	ſets	17	43	N	care and
4	5	2 35	18	42	1	coſt,
5	6	10	20	40	2	He'd totally
6	6	53	22	38	3	three king-
7	7	43	24	36	4	doms loſt.
8	8	42	25	35	5	Hypocriſy,
9	9	50	27	33	6	pride and
10	11	0	29	31	7	ambition,
11	morn		30	30	8	Rank bigo-
12	0	14	32	28	9	try and ſu-
13	1	31	33	27	10	perſtition,
14	2	47	35	25	11	Tho' con-
15	4	4	37	23	12	trarieſ
16	5	20	38	22	13	have been
17	☽	riſes	40	20	F	comkin'd,
18	5	2 27	41	19	15	To the con-
19	6	10	42	18	16	fuſion of
20	6	58	44	16	17	mankind,
21	7	50	45	15	18	And made
22	8	47	47	13	19	them drink
23	9	45	48	12	20	as bitter
24	10	46	49	11	21	potions,
25	11	47	51	9	22	As modern
26	morn		52	8	23	levelling
27	0	50	53	7	24	falſe no-
28	1	53	54	6	25	tions.
29	2	57	55	5	26	So honeſt
30	4	4	56	4	27	men are
						made the
						ſlaves
						Of crafty
						and deſign-
						ing knaves.

The chief rivers are, the Avon Soar, Anker, and Welland, o which the Soure or Soar is th principal, anciently called th Leire, which riſing with a doubl head on the north ſide of th county, runs with a bread cur rent through the middle of th county, by Loughborough, an thence to Leiceſter, receives i its paſſage the Senſe and th Wreke, and empties itſelf nea Woolſey, on the borders of War wickſhire. So far Mr. Martin.

Poor Robin ſays, that the Soa riſes from a double head on th *ſouthern* ſide of the county nea the borders of Warwickſhire runs from thence to Leiceſter which it paſſes with a deep an narrow ſtream, and from thence by Loughborough to Northampton upon Soar; after which, it di vides the counties of Leiceſter and Nottingham, till it empties itſelf into the great river Trent.

DECEMBER hath xxxi Days.

New Moon	3	Day at	10 ho.	47 m.	Morn.
First Quarter	10		8	29	Morn.
Full Moon	17		10	52	Morn.
Last Quarter	25		0	32	Aftern.

⊙ enters ♑ 21 day at 7 h. 29 m. Morn.

M D	⊙ Decl. South
1	21° 57′
6	22 36
11	23 5
16	23 22
21	23 28
26	23 21

1	20	F	Advent Sunday	Around his table. Then whilſt he
2	21	M		Is rack'd with pain and miſery;
3	22	Tu		He'll own no ſtate's here certain, nor
4	23	W		This world the place he took it for.
5	24	Th		Bitter for ſweet to us is hur'ld,
6	25	F	Nicholas. ☿ Stat.	To wean us from the preſent world;
7	26	S		
8	27	F	2 Sun. in Advent	Conception of V. Mary
9	28	M		On which we're apt too much to doat;
10	29	Tu		'Tis of life's curve the aſymptote.
11	30	W		For perfect bliſs is here the ſweet,
12	Dec.	Th		We may approach, but never meet.
13	2	F	Lucy	We travel, think we nearer come,
14	3	S		But here can't reach our proper home.
15	4	F	3 Sun. in Advent	The wiſeſt are but fools, who've known
16	5	M	O ſapi. Cam. T. e.	
17	6	Tu	Oxf. Term ends	
18	7	W	Ember week	
19	8	Th		
20	9	F		
21	10	S	St. Thomas	Shorteſt day
22	11	F	4 Sun. in Advent	All other countries but their own.
23	12	M		Why ſhould we then employ our cares,
24	13	Tu		Alone on trifling light affairs?
25	14	W	Chriſtmas day	He, who the ravens feed, has told
26	15	Th	St. Stephen	Us, he provides for young and old.
27	16	F	St. John	Then, let it be of life the plan,
28	17	S	Innocents	For all to do what good they can.
29	18	F	Sund. aft. Chriſtm.	
30	19	M		
31	20	Tu	Silveſter	

Observations in DECEMBER.

M D	Clock aft. Sun.
1	10 22
6	8 18
11	6 2
16	3 37
21	1 9
26	1 bef. 20

Now other Months have run their destin'd Race,
December last comes on with creeping Pace;
Ye Rich and Great, the Poor to shield from Harm,
Let Heaven-born Charity your Bosoms warm.

2	5 m. 9	VII	IV	28	J. Partridge, Hen. Season Astrology.
2	☽ sets	58	2	29	
3	4 a 40	59	N		
4	5 27	VIII	III	1	
5	6 25	1	59	2	The antient Robins, as we spell asses, So spelt Astrology a double s, The wight who with this art his conscience fears, Deserves a good long pair of asses ears.
6	7 29	2	58	3	
7	8 40	3	57	4	
8	9 55	3	57	5	
9	11 10	4	56	6	
10	morn	5	55	7	
11	0 26	5	55	8	
12	1 40	6	54	9	
13	2 54	6	54	10	
14	4 7	7	53	11	
15	5 19	7	53	12	
16	☽ rises	7	53	13	
17	4 a 36	8	52	F	
18	5 26	8	52	15	
19	6 21	8	52	16	T. Gadbury, W. Andrew, J. Sharp, S. Pearse, H. Coley, E. Sibley, I. Wright, And the rest of them, Make your best of them.
20	7 19	8	52	17	
21	8 21	8	52	18	
22	9 22	8	52	19	
23	10 22	8	52	20	
24	11 24	8	52	21	
25	morn	7	53	22	
26	0 28	7	53	23	
27	1 31	7	53	24	
28	2 37	6	54	25	
29	3 44	6	54	26	
30	4 52	6	54	27	
31	6 1	5	55	28	

And now, my kind and gentle readers, take which account you please, either that, according to the sage Mr. Martin, the Sun rises in the northern part of the county, runs all the way up hill to Loughborough and Leicester, and from thence to near Woolsey, where it empties itself (into a chamber-pot perhaps, for) Mr. Martin has forgot to tell us what it empties itself into; or, the account by Poor Robin, which has nothing in the world but the plain truth to recommend it.

And you will find in the second part of this my so delectable performance, opinions concerning other things quite as contradictory to those advanced by people that think themselves much greater than Mr. Martin. And my readers are left just at the same liberty, to believe either them, or Poor Old Robin, when he speaks the truth, and shames the devil.

Who ſay that Mancheſter's the city of man,
And think it their duty as much as they can,
In every news-paper throughout this great nation,
To publiſh Tom's fame for the ſake of vexation;
To furniſh fine themes for each ſpouting club ſpeaker,
All ſign'd by their chairman and deputy ſneaker.
Theſe doctrines pray roar out on every hill,
Inform them their duty's the vallies to fill.
What a ſhame 'tis that mountains their tops ſtill ſhould hide
In the clouds, or that woods on thoſe mountains ſhould ride,
Memorials of giants diſgracing the world,
Who the mountain of *Oſſa* on *Pelion* hurl'd,
Who can doubt the account, that of old *Plutarch* gave,
How *Sertorius* the Roman, on opening the grave
Of *Antæus* in *Africa* found therein treaſur'd
A ſkeleton, cubits long ſixty that meaſur'd.
But as theſe things deſtroy your equality plan,
They needs muſt be lies, ſo believe them who can!
And yet far ſtranger things you would make us believe,
That the whole world's a riddle, or rather a ſieve,
Into which when *Dame Venus* her urinal pours,
All mortals but patriots take it for ſhow'rs,
Or that Poor Robin's garret, tho' ſix ſtories high,
Is as low as a coal-pit, 'cauſe under the ſky;
That each acorn of oak is as big as a pumpkin,
And a prince is no more than a country bumpkin;
That a patriot's privilege is to whore ſnugger,
And the crime not ſo great near as uſing of ſugar;
That the Whites are all bad, and the Blacks are all good,
And tea ſweet'ned with ſugar's poor African's blood.
So you'd have us to drink now without rule or reaſon
Rare patriot poſſet well ſweeten'd with treaſon.
Such ſpeeches and draughts, honeſt men, without doubt,
Wiſh you'd drink, ſtare, and roar till your eyes tumble out.
Falſe patriots ſure are the peſt of all nations,
Confounding all order, all callings and ſtations;
They dreſs up wrong notions their malice to vent,
And make other men dupes of their own diſcontent.

All

All pretending they write for the publick good,
This by the unwary is misunderstood,
So the simple, but honest, misled by pretences,
Are bilk'd of their peace, or bereav'd of their senses;
Their honest fair callings and trades are neglected,
When by these foolish notions and speeches infected;
By such ways as these do some men rise to fame,
When their end is confusion, and mischief their aim.
But seriously Tom, all this cannot mean thee,
For by words without sense few deceived can be.
Yet thy second part *must* be, it seems, very fine,
And with principles false, foolish practice combine.
Does it teach all our wives then to cuckold their spouses,
And when they have done, to set fire to their houses?
Or are they such maxims, such stories or tales,
As led the French ladies the road to Versailles?
So pure and so peaceable like those before,
Who cut off the heads of the French *gardes du corps?*
Poor fellows! and guilty of no other thing,
But loving their country, and guarding their King.
Do you think, ye seditious, that make such a rout,
That innocent blood won't for vengeance cry out?
Had it been your mobships that thus had been slain,
What poems of mourning our presses would stain?
With all the pathetick that fancy can paint,
Would each atheist rascal be dubb'd for a saint?
Sure your Constitution not prove very good,
If you found it on violence and innocent blood.
What noises are made on the sufferings of slaves,
By patriot poets, 'gainst West-trading knaves,
Who in silence pass by, as it were to deride
Greater sufferings of Whites, who are not on their side.
With murder and treason, with strife and vexation,
Thus foul party-spirit can plague every nation:
Make a mountain a mole-hill, a ton weight a feather;
Thus theory and practice combining together.
If the theory make the contented suspicious,
The practice must then make the quiet seditious.
And, O the great glory and good worth maintaining!
Attending the mystery of proselyte gaining!

To doctrines like theſe fraught with all ſatisfaction,
Commending each lowly and praiſeworthy action.
How humble this makes men, and quite other things!
How pious to parents! how loyal to kings!
Muſt thoſe be who're led by ſuch maxims as theſe,
That all men a right have to act as they pleaſe.
For ſince they by nature are equal 'tis plain,
That one man another's no right to reſtrain.
Who doubts but a rogue then a right has to greet,
On highways the traveller he chances to meet,
Saying all ſhould be equal, with threatening curſe,
Since no money I have, I've a right to your purſe,
Believe you theſe doctrines, you ought to be bang'd,
If you ſay this a thief is, and ought to be hang'd.
Men their natural rights had forgot, there's no doubt,
Or this curs'd art of hanging had ne'er been found out.
So what a diſgrace was that man to man's nature!
Who found out the gallows? How curſed the traitor!
And rais'd be his fame loud, and high as a ſteeple!
Who firſt found that majeſty mob meant and people.
That nobles were birches that grew the pools brim on,
And kings therein logs, for the frogs all to ſwim on.
O what ſage ſapient heads theſe fine maxims advance!
Which true as the goſpel are reckon'd in France.
The goſpel indeed out of faſhion is grown there,
So much ſo, you'd ſwear that it never was known there.
It ten enemies has ſure in every eleven,
Among the *tiers etat*, who ne'er think of heaven;
Yet familiarly wiſh all their nobles in hell,
As if that a place were theſe *etats* knew well.
And honeſt John Bull ſays, old Davy there brings
All robbers of churches, and mobbers of kings.
He hates all intruders wherever they ſpring,
And ſtill reads the old book, that ſays *honour the king*.
Loves honeſt good men to fill every ſtation,
And honeſt John Bull is the Engliſh nation.
But what's this French nation of ſinners a doing,
Their princes to baniſh, their nobles to ruin?
Than the brute have they leſs ſenſe? That cover'd with flies
Sucking gore from its raw fleſh as helpleſs it lies?

Then

Then up comes a hedge-hog, as Æſop declares,
And offers to drive off theſe flies with its hairs.
Oh no! ſays the creature, heav'n bleſs you forbear
To drive off theſe flies now, but let them ſtick there;
For they pretty well fill'd are, and tho' they're the ſame,
They don't bite ſo ſharply as when they firſt came.
Whereas, ſhould you drive theſe away, when they're gone,
A new hungry ſwarm will come flay me to the bone.
I wiſh not this too like the wiſe Gallick nation,
Their old nobles driving each one from his ſtation;
Tho' they were well fill'd, and the nation well us'd
To their biting, which never before was refus'd.
But now they are gone, it is ſaid, people find,
A worſe race of bloodſuckers far left behind;
Sad hungry dogs, that rubb'd horſes in ſtables,
Behind counters cheated, or waited at tables:
For nobles, we're told, now are come in their rooms,
A fine parcel of varlets, of ſhopmen, and grooms.
Let who'll ſink or ſwim, all theſe men muſt be fed,
For they muſt and will eat, and make you find them bread.
The families you, whence the fathers are flown,
And the children cry bread, and theſe give them a ſtone.
Perhaps, you may ſay, I the whole don't embrace,
Nor of our wiſe neighbours have quite hit the caſe.
Tho' the tree be cut down, yet they ſtill have the ſtump,
Or, what pleaſes them better, nobility's rump:
And the rump's a fine thing for French aſſes to kick at,
And this the Pariſians ſure never will ſtick at.
This city the nobles did chiefly ſupport,
Now they've caſt them aſide, and disfranchis'd them for't:
Where ſcarlets and coronets glitter'd before,
They have got in their ſtead a new ſh-tten barn door,
Which, like dark winter's night, in the new mode ſo ſhines,
It the ſight of their bleſſings to themſelves confines,
And a very few others enlighten'd as they,
Who put bitter for ſweet, and groſs darkneſs for day.
If theſe were light matters, one write might in fun,
But think on Domingo! what horrour's begun!
What a ſample is here of a new conſtitution!
Are theſe the effects of your bleſs'd revolution?
Can you quite unfeelingly hear ſuch diſaſters?
Hark! the hard-hearted blacks have murder'd their maſters!

The

The innocent babes fair, that ſmilingly hung
At the breaſts, whilſt the mothers in agony clung
To them, regardleſs of prayers, tears, and groans,
Have been forc'd from their arms, and beendaſh'd on theſtones!
And the yet tender prattlers that lifted up cries,
Black ſlew, leſt from theſe after vengeance ſhould riſe.
So horrid the ſcene it deſcription abaſhes,
The country's deſtroy'd and the towns burnt to aſhes;
A white infant impal'd for an enſign blacks bore,
And committed all crimes ever heard of, and more,
Where all was hilarity, joy and delight,
Now's a deſolate wilderneſs ſilent as night,
Tho' the *amis des noirs* may in miſchief rejoice,
It's ſaid here, with almoſt unanimous voice,
But for your revolution this never had been,
Sure, your callous hard hearts muſt revolt at the ſcene.
Yet Tom, of the Terrible ſhip, Captain Death,
To bring on ſuch things ſpends his labour and breath;
Ah Tom, there's no doubt but thy heart's made of ſtone,
And thy head, if not wood, it is ſure ſolid bone.
Undaunted to boaſt perſeverance and pride,
Diſintereſtedneſs compelling reſpect too beſide,
In political eminence riſing and ſwelling,
The moſt difficult line to ſucceed and excel in,
In thy own book, thus puffing thy own conſequence,
Muſt make all men admire, Tom, thy good common ſenſe.
But Tom, ariſtocracy where it yet ſtands,
And I hope it long ſtand will in all happy lands,
Fit place and time teaches, and never, I ſee,
Produc'd a more vain bragadocio than he.
Tranſatlantic affairs too, that make ſuch a rout,
And ſtone-heads and bone-heads ſo bandy about;
Conſtitution America is, I am ſure,
To properly ſpeak, ariſtocracy pure.
And ſay what you will, it's well underſtood there,
That the publick's the beaſt that all burdens muſt bear.
Does Congreſs conſiſt, Tom, of rich men or poor?
Great dogs worry little dogs all the world o'er,
And when this Congreſs goes to the grave or the devil,
Will great dogs to little dogs then be more civil?
When theſe men are gone who have all things perplext,
Will they chuſe out a congreſs from cottages next?

Or

Or will not the ſtrong ſway the weak at their will?
And the ſons of the rich the poor many ſway ſtill?
Where the few rule the many is, Tom, to be ſure,
In the world nothing but ariſtocracy pure.
And then, O ye ſage heads! what difference ſprings,
Whether rulers be made or by coblers or kings?
If the king's a good king we may truſt him and ought,
Since the rabble's a beaſt that is oft ſold and bought.
Is the difference enough mighty nations to fire,
In the words Count and Marquis, or Mr. and Squire?
To a cypher or nothing the whole muſt amount,
When the Squire's rich as Marquis, and Mr. as Count.
Then democracy but for a cant word is kept,
In old world or new world (ſmall *Baſil* except.)
And only ſeems fitted, howe'er ſome may prate,
For one ſingle city, or very ſmall ſtate.
Where folks by themſelves, not by deputies act,
There only democracy pure is in fact.
But where's the great nation, ſearch all the world round,
Among whom any government like this is found?
All deputies are *ipſo facto*, no more
Democrats whatever they might be before.
And whate'er the Aſſembly French themſelves call,
If they're not ariſtocrats they're no crats at all.
The French wiſh to appear what they are not 'tis true,
Such wiſh and deſire to be ſure's nothing new.
They proffer their friendſhip, and hope to elate us,
Yet cordially bid the Americans hate us.
They ſay the French nation's to them been ſo civil,
That they ſhould do no leſs than ſend us to the devil.
Yet I think theſe Americans are not ſo blind,
But to ſee with their friendſhip ſelf-intereſt combin'd.
If them they ſupported it was us to tame,
And the ruin of Britain was their only aim.
Is perfidious craft and falſe cunning the bench,
That muſt ever excluſively hold all the French?
Nor think their King only and Council to blame,
Read *De la Croix* or *Briſſot* you'll find juſt the ſame.
When the meſſengers from St. Domingo had told
Their ſad and true tale, and ſhock'd both young and old,
Such as theſe ſaid, of loſſes they made a great fuſs,
But that traitors they were, and received help from us.

Thus

us to their calamities adding vexation,
y' they knew they were loyal and true to their nation.
v thy lucky hits, Tom, ſo manly and bold,
at *parvum in multo* amaz'd we behold!
-praiſe commendation is great thou haſt ſhewn,
And the contrary maxim is from the world flown:
Poor *Burke* dares no more wag his tongue or pen now,
Such a genius amazing, O Tommy, art thou!
Thy ſtyle too, ſo nervous, ſo poliſh'd, and ſage,
Wounds like the fool's doctrine on mountebank ſtage.
Like the methodiſt prieſt, who divinely cries put on
The plate now ſome money, to buy beef and mutton,
For you know I muſt eat, tho' I be not a glutton.
So with ſound wholeſome doctrine you wiſeacres treat,
And the more buy your books, Tom, the more you've to eat.
For tho' Tom may always aſſociate with ſinners,
He can't always *gratis* partake of their dinners.
Then what a thing rare is a revolu— feaſt,
He wiſhes for one there were forty at leaſt.
To ſit like a hero and hear himſelf toaſted,
Drink plenty of wine, and devour boil'd and roaſted.
To boaſt, ſwell, and puff, there demonſtrates men bold,
Faſhion new this, ſuch cowards were reckon'd of old.
Yet men in all ages, as hiſtory ſhews,
And nations were apt to be led by the noſe,
By ſpecious deſigns, and by words fair and civil,
Sometimes to do good but more oft to do evil.
For ſtate-quacks like body-quacks noſtrums diſpenſe,
Sophiſticate poiſon and call it good ſenſe,
With ſmooth honey'd words they diſſeminate ills,
And induce patients healthy to take naſty pills.
But my country I wiſh to beware of new notions,
As they happineſs love, and abhor bitter potions.
And as to this Tom, I have mentioned by name,
Pray my countrymen aſk, whence and wherefore he came?
And if the deſign why he hither did dance,
Was to alter our government, join us to France:
I hope, when they pray, they will not pray in vain,
That he'd take himſelf croſs the Atlantick again.
So pr'ythee Tom go now, nor think theſe are puns,
For in England live moſt unmerciful duns;
Not all the fine things, Tom, thou ever haſt wrote,
Nor all the fine ſpeeches, that flew thro' thy throat.

Can

Can move in the leaſt that fell monſter a Bum,
But if ever he gets thee ſafe under his thumb;
Thou never muſt know thy dear liberty more,
But die in vile durance like King Theodore.
Whoſe example may prove, its not ſuch a fine thing,
As ſome people take it, to be a poor king.
And he who his friends tries, will ſoon find them fail,
When he may lie and rot till he die in a jail.

May 1, 1792.

ECLIPSES. 1793.

Within the compaſs of this year,
Juſt four Eclipſes will appear,
Two of the Sun, two of the Moon;
And when and where I'll tell you ſoon.

Monday, Feb. 25, the Moon will be viſibly eclipſed at Greenwich in the evening.

Beginning 9 h. 23 m. ¾. Middle 10 h. 45 m. ¼. End 12 h. 6 m. ½. Digits eclipſed 6° on the Moon's North Limb.

Tueſday, March 12, in the morning, the Sun will be eclipſed, but inviſible in theſe parts of the earth.

Wedneſday, Aug. 21, the Moon will be eclipſed, but it will be over before ſhe riſes here.

Thurſday, Sept. 5, the Sun will be viſibly eclipſed at Greenwich in the morning.

Beginning 9 h. 37 m. Greateſt Obſcuration 11 h. 8 m. ¾. End 0 h. 44 m. ¼. Digits eclipſed 9° 28′ on the Sun's North Limb. The Moon makes the firſt impreſſion on the ſolar diſk at 29° ½ from the Sun's vertex on the right hand.

But pray don't aſk what theſe are ſigns of;
Aſtrology I write no lines of.
But ſeriouſly I'm afraid,
Both whores and cuckolds will be made.
So ſpice with nutmeg well my toaſt,
And lay me down a hare to roaſt,
I both good eating need and drinking,
For I am weary'd out with thinking.

N. B. The letter from *Stockton* did not come to hand till the copy was finiſhed; but will be noticed next year.

OBSER-

OBSERVATIONS *on the* FOUR QUARTERS.

The *Spring Quarter* begins March 20, when the Sun enters the imaginary celeſtial ſign Aries. *Summer*, June 21, when he enters Cancer. *Autumn*, September 22, when he enters Libra. And *Winter*, December 21, when he enters Capricorn. The hours and minutes for every one of theſe you will find in red letters at the heads of thoſe reſpective months in the Calendar. As to ſeconds, we do not ſtand upon ſuch exactneſs in theſe things, which are the inviſible and imaginary ones of light nor darkneſs; ſo we will kindly beſtow ſeconds upon thoſe ſons of darkneſs who fight duels.

Spring, ever welcome, glads the genial bowers,
From opening buds producing leaves and flowers,
The garden's glory, and the orchards pride,
The ſnow-drop firſt, the crocus by its ſide,
Come while ſtern Winter has not left the plains,
But ſtorming threatens ſtill with rough remains;
The violet, lily, polyanthus rear
Their beautious heads when April glads the year;
But who can count the charms of lovely May?
When all is ſweet, delightful, new, and gay.

Summer begins the twenty-firſt of June,
Which, old wives ſay, puts every thing in tune;
The truth of this howe'er's a doubtful thing,
For birds more ſweetly ſung when it was ſpring:
But then, as June and tune together rhyme,
We muſt not look for truth at the ſame time.
And while by old wives tales I'm led aſtray;
Friends, don't forget to reap your corn and hay.

Autumn comes next, ſo fam'd for all things dainty,
Good corn and wine, rich pears and pippins plenty.
A good coal-fire, when nights are long and cold,
May warm both toes and fingers young and old.
Dear friends, Poor Robin hopes you will not fail
This quarter, to brew plenty of good ale.
Remembering often to invite the knight,
To ſee i'ts joy, but drinking it's delight.

Winter's the ſeaſon laſt and coldeſt found,
And nipping froſt locks up the genial ground;
As ſays the gypſey ſong, cold as can be,
But not ſo very cold as charity.

FINIS.

Speculum Anni:

OR,

SEASON on the SEASONS,

For the Year of our LORD 1793,

BEING THE FIRST AFTER

BISSEXTILE, or LEAP YEAR.

Wherein you will find all Things neceſſary for ſuch a Work; Sun and Moon's Riſing and Setting; Moon's Southing, Planets Places and Aſpects, Eclipſes, Judgments on the Weather, and Four Quarters; Remarks about the Sun, Monthly Poetry, and other Novelties.

By HENRY SEASON,

LICENSED PHYSICIAN,

And Student in the Celeſtial SCIENCES, near DEVIZES.

With a particular Judgment of the Eclipſes, &c.

Omnis donatio bona, & omne integrum bonum
Eſt ſuperne deſcendens à patre Luminum. Jac. 1. 17.

God hath granted me to ſpeak according to my Mind, and to judge worthily of the Things that are given me; for he is the Leader unto Wiſdom, and the Director of the Wiſe: How the Times alter, the Change of the Seaſons, the Courſe of the Year, and the Situation of the Stars. Wiſd. chap. vii. ver. 15, 19.

The ſacred Fiat! no ſooner nam'd,
But Heav'n with all its Hoſts were fram'd:
Phœbus diſplay'd his fiery Car,
And Wiſdom marſhall'd ev'ry Star;
Six Worlds around the Sun did glide,
He gave their Light, and Motions guide;
By ſecret, fix'd, attractive Laws,
They all confeſs th' Almighty Cauſe.

The AUTHOR's Sixtieth Impreſſion.

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[Price TEN-PENCE ſtitched.]

The common Notes for the Year 1793.

The Golden Number - -	8	Shrove-Sunday -	Feb. 10
The Epact - - - -	17	Aſh-Wedneſday	Feb. 13
The Cycle of the Sun - -	18	Eaſter-Day - -	Mar. 31
Dominical Letter - -	F	Whit-Sunday - -	May 19
Roman Indiction - - -	11	Advent-Sunday -	Dec. 1
Septuageſima Sunday	Jan. 27	Sundays after Trinity - -	26

The 12 Signs.		The 7 Planets, and the Aſpects.	
♈	Aries	☉	Sun
♉	Taurus	☽	Moon
♊	Gemini	♄	Saturn
♋	Cancer	♃	Jupiter
♌	Leo	♂	Mars
♍	Virgo	♀	Venus
♎	Libra	☿	Mercury
♏	Scorpio	☌	Conjunction
♐	Sagitary	⚹	Sextile
♑	Capricorn	□	Square
♒	Aquarius	△	Trine
♓	Piſces	☍	Oppoſition

The four Quarters of the Year.

	d	h	m	
Spring Quarter begins - - -	March 20	3	8	Morn.
Summer Quarter begins - -	June 21	1	10	Morn.
Autumn Quarter begins - -	Sept. 22	2	58	Aftern.
Winter Quarter begins - -	Dec. 21	7	29	Morn.

Venus will be an Evening Star till May 27, and then a Morning Star for the reſt of the Year.

Jupiter will be a Morning Star till May 17, then an Evening Star till Dec. 4, and then a Morning Star for the reſt of the Year.

A TABLE

A TABLE of the KINGS and QUEENS of England, from the CONQUEST to the preſent Year 1793.

Names of Kings.	Born Ann.	When Began to reign	Reign. Y.	Reign. M.	Since their Reign ended.	Buried at
William 1	1029	1066, Octob. 14	20	11	706, Septem. 9	Caen, Nor.
William 2	1057	1087, Sept. 9	12	11	693, Auguſt 2	Wincheſt.
Henry 1	1068	1100, Aug. 2	35	4	658, Decemb. 1	Reading.
Stephen	1105	1135, Dec. 1	18	11	639, Octob. 25	Feverſham
The Saxon Line Reſtored.						
Henry 2	1133	1154, Oct. 25	34	8	604, July 6	Fontevr.
Richard 1	1156	1189, July 6	9	9	594, April 6	Fontevr.
John	1165	1199, April 6	17	6	577, Octob. 19	Worceſter
Henry 3	1207	1216, Oct. 19	56	1	521, Nov. 16	Weſtmin.
Edward 1	1239	1272, Nov. 16	34	8	486, July 7	Weſtmin.
Edward 2	1284	1307, July 7	19	7	466, Jan. 25	Glouceſter
Edward 3	1312	1327, Jan. 25	50	5	416, June 21	Weſtmin.
Richard 2	1366	1377, June 21	22	3	394, Sept. 29	Weſtmin.
The Line of Lancaſter.						
Henry 4	1367	1399, Sept. 29	13	6	380, March 20	Canterb.
Henry 5	1389	1413, Mar. 20	9	5	371, Auguſt 31	Weſtmin.
Henry 6	1421	1422, Aug. 31	38	6	332, March 4	Windſor
The Line of York.						
Edward 4	1442	1461, Mar. 4	22	1	310, April 9	Windſor
Edward 5	1471	1483, April 9	0	2	310, June 22	Unknown.
Richard 3	1442	1483, June 22	2	2	308, Auguſt 22	Leiceſter
The Families United.						
Henry 7	1456	1485, Aug. 22	23	8	284, April 22	Weſtmin.
Henry 8	1492	1509, April 22	37	9	246, Jan. 28	Windſor
Edward 6	1537	1547, Jan. 28	6	5	240, July 6	Weſtmin.
Qu. Mary	1516	1553, July 6	5	4	235, Nov. 17	Weſtmin.
Qu. Eliz.	1533	1558, Nov. 17	44	4	190, March 24	Weſtmin.
The Union of the Two Crowns.						
James 1	1566	1603, Mar. 24	22	0	168, March 27	Weſtmin.
Charles 1	1600	1625, Mar. 27	23	10	144, Jan. 30	Windſor
Charles 2	1630	1649, Jan. 30	36	0	108, Feb. 6	Weſtmin.
James 2	1633	1685, Feb. 6	4	0	104, Feb. 13	S. Germain
Will. & Mary	1650	1689, Feb. 3	13	1	91, March 8	Weſtmin.
The Union of the Two Kingdoms.						
Qu. Anne	1665	1702, Mar. 8	12	5	79, Auguſt 1	Weſtmin.
George 1	1660	1714, Aug. 1	12	10	66, June 11	Hanover
George 2	1683	1727, June 11	33	4	33, Oct. 25	Weſtmin.
George 3	1738	1760, Oct. 25	Crowned Sept. 22, 1761.			

A TABLE of TERMS and their RETURNS.

Hilary Term begins January 23, ends February 12.

Returns or Essoign Days.	E	R	A	W D
In eight Days of St. Hilary, - - Jan. 20	21	22	23	Wed.
In 15 Days of St. Hilary - - - 27	28	29	30	Wed.
On the Mor. of the Purificat. of B.V.M. Feb. 3	4	5	6	Wed.
In eight Days of the Purificat. of B.V.M. - 9	10	11	12	Tuef.

Easter Term begins April 17, ends May 13.

In 15 Days of Easter - - - April 14	15	16	17	Wed.
From Easter in 3 Weeks, - - - - 21	22	23	24	Wed.
From Easter in 1 Month, - - - 28	29	30	M 1	Wed.
From Easter in 5 Weeks, - - May 5	6	7	8	Wed.
On the Morrow of the Aſcenſion-day, 10	11	12	13	Mon.

Trinity Term begins May 31, ends June 19.

On the Morrow of the Holy Trinity, May 27	28	29	31	Frid.
In eight Days of the Holy Trinity, June 2	3	4	5	Wed.
In 15 Days of the Holy Trinity, - 9	10	11	12	Wed.
From the Day of the Holy Trin. in 3 Wks. 16	17	18	19	Wed.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls, - - Nov. 3	4	5	6	Wed.
On the Morrow of St. Martin, - - - 12	13	14	15	Frid.
In eight Days of St. Martin, - - - 18	19	20	21	Thurſ
In 15 Days of St. Martin, - - - 25	26	27	28	Thurſ.

N. B. No Sittings in Weſtminſter-Hall on Aſcenſion-Day, Midſummer-Day, and the 2d of February.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The firſt and laſt Days of every Term are the Days of Appearance.

A CATALOGUE of the Moſt Reverend, Right Reverend, and Reverend, the Archbiſhops, Biſhops and Deans, exerciſing Eccleſiaſtical Juriſdiction in England, 1793.

Archbiſhops.	Deans' Names.	Names of the Sees.
Dr. John Moore	Biſhop of Exeter	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
Biſhops.		
Dr. Beilby Porteus.	Bp. of Lincoln	London
Hon. Shute Barrington	Bp. of Peterborough	Durham
Hon. D. Browal. North	Dr. Newton Ogle	Winchester
Sir Wm. Aſhburnham	Mr. Combe Miller	Chicheſter
Dr. Charles Moſs	Lord Francis Seymour	Bath and Wells
Dr. John Douglas	Dr. John Ekins	Saliſbury
Dr. John Hinchliffe	Dr. Peter Peckard	Peterborough
Hon. Dr. James Yorke	Dr. William Cooke	Ely
Dr. John Thomas	Dr. Thomas Dampier	Rocheſter
Dr. Richard Hurd	Ho. St Andrew St. John	Worceſter
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Dr. John Warren	Dr. Thomas Lloyd	Bangor
Hon. Dr. Ja. Cornwallis	Dr. Baptiſt Proby	Lichfield and Coventry
Dr. Lewis Bagot	Mr. W. D. Shipley	St. Aſaph
Dr. Richard Watſon	Dr. Robert Price, *Prec.*	Llandaff
Dr. Edward Smalwell	Dr. Cyril Jackſon	Oxford
Dr. Spencer Madan	Dr. John Hallam	Briſtol
Dr. George Pretyman	Sir Richard Kaye, Bart.	Lincoln
Dr. E. Venables Vernon	Dr. Iſaac Milne	Carliſle
Dr. Wm. Cleaver	Dr. George Cotton	Cheſter
Dr. Sam. Horſley	Mr. F. Wollaſton, *Prec.*	St. David's
Dr. Richard Beadon	Dr. Joſiah Tucker	Glouceſter
Dr. C. Manners Sutton	Dr. Joſeph Turner	Norwich
Dr. William Buller	Dr. Charles Harward	Exeter
	Bp. of Rocheſter	Weſtminſter
Dr. Claud. Crigan	Bp. of Litchfield	Windſor
		Sodor and Man

The Names of the Learned Judges in the Law.

Lords Commiſſioners of the Great Seal.

Sir James Eyre, Sir W. H. Aſhhurſt, Sir J. Wilſon, Knights.

Sir Rich. Pepper Arden, Knt. Maſter of the Rolls.

Sir Arch. M'Donald, Knt. Attor. Gen. Sir John Scott, Knt. Sol. Gen.

II. In the K. Bench.	Rt. Hon. Lord Kenyon, L. C. J.	Sir Fran. Buller, Bart.
	Sir Wm. Henry Aſhhurſt, Knt.	Sir N. Groſe, Knt.
III. In the Co. Pleas.	Rt. Hon. Al. Lord Loughborough, L. C. J.	John Heath, Eſq.
	Sir H. Gould, Kt.	Sir J. Wilſon, Kt.
IV. In the Exchequer.	Sir James Eyre, Knt. L. C. B.	Sir Rich. Perryn, Knt.
	Sir Beaumont Hotham, Knt.	Sir Alex. Thomſon, Knt.

A TABLE shewing the Moon's Southing for Farmers and others that breed Cattle, but men and others that sail upon the Waters.

M D	Jan. h m	Feb. h m	Mar. h m	April h m	May h m	June h m	M D
1	2 m46	3 m30	2 m15	3 m37	4 m27	6 m 6	1
2	3 30	4 16	3 0	4 32	5 25	6 56	2
3	4 13	5 2	3 49	5 29	6 21	7 46	3
4	4 56	5 51	4 40	6 26	7 15	8 36	4
5	5 41	6 43	5 33	7 23	8 8	9 25	5
6	6 27	7 38	6 29	8 19	9 0	10 15	6
7	7 15	8 36	7 27	9 15	9 51	11 5	7
8	8 7	9 36	8 25	10 9	10 42	11 55	8
9	9 3	10 37	9 23	11 2	11 32	0 a 46	9
10	10 2	11 39	10 22	11 54	0 a 23	1 35	10
11	11 3	0 a 37	11 10	0 a 47	1 15	2 23	11
12	0 a 5	1 33	0 a 15	1 39	2 6	3 10	12
13	1 6	2 26	1 8	2 30	2 56	3 56	13
14	2 4	3 18	2 1	3 21	3 45	4 40	14
15	2 59	4 8	2 52	4 12	4 33	5 23	15
16	3 52	4 57	3 43	5 1	5 19	6 5	16
17	4 42	5 46	4 33	5 49	6 4	6 48	17
18	5 30	6 35	5 23	6 30	6 48	7 33	18
19	6 18	7 24	6 12	7 22	7 31	8 20	19
20	7 6	8 12	7 0	8 7	8 15	9 10	20
21	7 53	8 59	7 47	8 51	9 0	10 3	21
22	8 41	9 46	8 34	9 35	9 47	11 0	22
23	9 29	10 32	9 20	10 20	10 36	11 59	23
24	10 17	11 17	10 5	11 7	11 28	morn	24
25	11 4	morn	10 49	11 55	morn	1 0	25
26	11 50	0 1	11 33	morn	0 23	2 0	26
27	morn	0 45	morn	0 45	1 20	2 58	27
28	0 35	1 30	0 19	1 38	2 19	3 54	28
29	1 20		1 6	2 33	3 18	4 47	29
30	2 3		1 54	3 30	4 16	5 39	30
31	2 46		2 44		5 12		31

all the Months of the Year, very neceſſary for all eſpecially and more worthy of Notice to Sea-

M D	July h m	Auguſt h m	Sept. h m	Oct. h m	Nov. h m	Dec h m	M D
1	6 m28	7 m41	8 m59	9 m24	10 m19	10 m23	1
2	7 17	8 31	9 47	10 9	11 3	11 14	2
3	8 7	9 20	10 32	10 51	11 49	0 a 5	3
4	8 56	10 9	11 17	11 35	0 a 37	1 0	4
5	9 45	10 56	0 a 1	0 a 19	1 28	1 58	5
6	10 35	11 43	0 44	1 4	2 21	2 55	6
7	11 25	0 a 28	1 28	1 50	3 16	3 52	7
8	0 a 13	1 13	2 11	2 39	4 12	4 47	8
9	1 0	1 56	2 56	3 30	5 8	5 40	9
10	1 46	2 39	3 43	4 23	6 4	6 31	10
11	2 31	3 21	4 32	5 17	6 58	7 21	11
12	3 14	4 5	5 24	6 13	7 51	8 11	12
13	3 57	4 51	6 18	7 10	8 43	9 2	13
14	4 40	5 39	7 16	8 7	9 35	9 53	14
15	5 23	6 30	8 15	9 2	10 27	10 45	15
16	6 8	7 24	9 13	9 57	11 19	11 37	16
17	6 55	8 21	10 11	10 52	morn	morn	17
18	7 46	9 21	11 9	11 46	0 12	0 29	18
19	8 40	10 22	morn	morn	1 6	1 20	19
20	9 37	11 22	0 5	0 40	1 59	2 10	20
21	10 37	morn	1 0	1 33	2 51	2 57	21
22	11 37	0 21	1 54	2 27	3 41	3 43	22
23	morn	1 18	2 48	3 20	4 30	4 27	23
24	0 39	2 13	3 41	4 12	5 16	5 9	24
25	1 38	3 6	4 33	5 3	6 0	5 51	25
26	2 35	3 58	5 25	5 53	6 43	6 33	26
27	3 29	4 50	6 15	6 40	7 26	7 16	27
28	4 21	5 41	7 4	7 25	8 9	8 1	28
29	5 11	6 32	7 52	8 0	8 52	8 48	29
30	6 1	7 22	8 39	8 53	9 37	9 39	30
31	6 51	8 11		9 36		10 33	31

JANUARY xxxi Days.

M D	☽ ♍	♃ ♏
1	25	24
6	25	25
11	26	26
16	26	27
21	26	28
26	26	28

Last Quarter the 5th day, at 4 in the afternoon.
New Moon the 12th day, at 9 in the morning.
First Quarter the 19th day, at 2 in the morning.
Full Moon the 27th day, at 5 in the morning.

M D	W D	Remarkable Days, &c.	☉ ♑	☽ lon. gitude	☽ rises and sets	♂ ♒	♀ ♒	♄ ♑	Mut. Aspects and Weather.
1	T	Circumcision	12	26 ♌ 48	8 a 30	12	18	12	♂ ☉ ♅
2	W		13	8 ♎ 35	9 32	13	19	10	Some cold
3	T		14	20 35	10 35	14	20	9	rain or snow
4	F		15	2 ♏ 47	11 41	15	21	8	now about.
5	S	Old Christ. d.	16	15 16	morn.	16	23	7	
6	F	2 S. a. Chris.	17	28 7	0 48	16	24	6	Epip. 12 D.
7	M	Plow Mond.	18	1 ♐ 26	1 57	17	25	5	✶♄♀, □♅♀
8	T	Lucian.	19	25 14	3 8	18	26	4	Mild, but
9	W		20	9 ♑ 32	4 21	19	28	4	cloudy thick
10	T		21	24 17	5 31	20	29	3	air.
11	F		22	9 ♒ 23	6 35	20	30	3	
12	S	Old N. Y. D.	23	24 40	☽ sets	21	♑	♒	Cold winds,
13	F	1 S. af. Epiph.	24	9 ♓ 58	6 a 1	22	2	3	Hil. C. T. b.
14	M	Ox. T. begins	25	25 4	7 21	23	4	3	□☉♄[✶♀♅
15	T		26	9 ♈ 51	8 40	23	5	3	with some
16	W		27	24 14	9 57	24	6	4	frost and
17	T	Old Twelf. d.	28	8 ♉ 9	11 10	25	7	5	snow
18	F	Q. Ch. b. d. k.	29	21 39	morn	26	8	5	Prif. ✶ ♄ ♂
19	S		♓	4 ♊ 45	0 20	27	10	6	
20	F	2 S. af. Epiph.	1	17 31	1 28	27	11	7	Fab. □ ♅ ♂
21	M	Agnes	2	30 0	2 33	28	12	7	More tem-
22	T	Vincent	3	12 ♋ 15	3 33	29	13	8	perate and
23	W	Hillary T. b.	4	24 ♌ 22	4 30	30	14	9	agreeable.
24	T		5	6 ♍ 21	5 23	♑	16	10	
25	F	Conv. St. Paul	6	18 15	6 7	1	17	11	
26	S		7	0 ♎ 6	6 46	2	18	12	Somewhat
27	E	Septuages. S.	8	11 56	☽ rises	3	19	14	
28	M	[P. Au. F. b.	9	23 46	6 a 13	4	20	15	frosty, even
29	T		10	5 ♏ 39	7 14	5	21	16	
30	W	K. Ch. I. mart.	11	17 37	8 17	6	23	17	to the end.
31	T		11	29 42	9 22	6	24	18	

Now Boreas' blaſts breath'd from the frozen zone,
Turns rivers into chryſtal rocks like ſtone;
The fields that were with flowers overſpread,
Look ruſſet now, ſummer's glory hence is fled:
High rocks and mountains covered are with ſnow,
Which ſoon with floods our vallies overflow.

M D	☉ riſes h	m	☉ ſets h	m
1	8	4	3	56
2	8	4	3	57
3	8	3	3	57
4	8	2	3	58
5	8	2	3	58
F	8	1	3	59
7	8	0	4	0
8	7	59	4	1
9	7	58	4	2
10	7	57	4	3
11	7	56	4	4
12	7	55	4	5
F	7	54	4	6
14	7	53	4	8
15	7	52	4	9
16	7	50	4	10
17	7	49	4	11
18	7	47	4	13
19	7	46	4	14
F	7	45	4	15
21	7	43	4	17
22	7	42	4	18
23	7	40	4	20
24	7	39	4	21
25	7	37	4	23
26	7	36	4	24
F	7	34	4	26
28	7	33	4	27
29	7	31	4	29
30	7	29	4	31
31	7	28	4	32

OBSERVATIONS.

Of the wiſdom of God in his Works.

Of God's infinite Power and Goodneſs.

THAT a being neceſſarily and independently exiſting, poſſeſſed of infinite wiſdom power and happineſs, ſhould exert his powe in producing innumerable multitudes of creatures, and worlds for their convenien habitation and happineſs, could proceed only from his infinite and unbounded goodneſs. For, as to the notion of his creating the univerſe, and its inhabitants, with a view to his own glory (who is independant) or to the praiſe of his finite, dependant, and imperfect creatures, is inconſiſtent with his ſupremity, as an infinite God, in whoſe ſight the whole created univerſe, with all its inhabitants are but as a few floating atoms in the ſun beams.

The extenſiveneſs of the Divine Goodneſs appears in his having condeſcended, from the exaltation of his infinite perfection, to provide a ſuitable meaſure of happineſs for every order of his creatures; from the higheſt archangel down to the loweſt reptile.

FEBRUARY xxviii Days

M D	♄ ♈	♃ ♏
1	27	29
6	27	30
11	27	♐
16	28	1
21	28	1
26	29	1

Laſt Quarter the 4th day, at 4 in the morning.
New Moon the 10th day, at 7 in the afternoon.
Firſt Quarter the 17th day, at 6 in the afternoon.
Full Moon the 25th day, at 11 at night.

W D	Remarkable Days, &c.	☉ ♓	☽ longitude	☽ rises and ſets	♂ ♓	♀ ♓	☿ ♒	Mut. Aſpects and Weather
F		13	♎ 59	10 a 29	7	25	20	Rather
S	Pur. or Ca.D.	14	24 30	11 36	8	26	21	cloudy and
F	Sexageſ. Sun.	15	♏ 19	morn	8	27	22	Blaſe
M		16	20 32	0 44	9	28	24	unſettled.
T	Agatha	17	4 ♐ 9	1 53	10	30	25	△ ♃ ♀
W		18	18 14	3 3	11	♈	26	□ ♄ ☿
F		19	2 ♑ 44	4 6	12	2	28	Rough
F		20	17 36	5 6	12	3	29	✶ ♃ ☿
S		21	2 ♒ 43	5 57	13	4	♒	winds.
S	Shrove Sund.	22	17 56	☽ ſets	14	5	2	bringing
M		23	3 ♓ 5	6 a 15	15	7	4	rain or ſnow.
T	Shrove Tueſ.	24	18 0	7 25	16	8	5	Hil. Ter. e.
W	Aſh Wedneſ.	25	2 ♈ 34	8 43	16	9	7	Old Cand.
T	Valentine	26	16 43	9 58	17	10	8	
F	Cam. T. di. n.	27	0 ♉ 24	11 10	18	11	10	Froſty air,
S		28	13 39	morn	19	12	11	
S	Qua. 1 S. Lent	29	26 29	0 18	19	13	13	
M		♓	9 ♊ 0	1 22	20	15	14	✶ ☿ ♉, □ ☉ ♃
T		1	21 14	2 22	21	16	16	with ſome
W	Ember Week	2	3 ♋ 16	3 15	22	17	18	ſleet, or cold
T		3	15 10	4 3	23	18	19	rain.
F		4	27 0	4 44	23	19	21	
S		5	8 ♌ 49	5 20	24	20	23	
S	2 S.L. St. Mat.	6	20 39	5 53	25	21	24	Pr. A. Fr. b.
M		7	2 ♍ 34	☽ riſes	26	22	26	Windy, with
T		8	14 35	6 a 10	26	23	28	✶ ♄ ☿
W		9	26 44	7 14	27	25	29	cold rain, or
T		10	9 ♎ 2	8 20	28	26	♓	□ ♃ ☿
								elſe ſnow.

When in the air winds meet with such a shock,
The thundering skies with their encounters rock;
When Hyem binds the floods in silver chains,
And hoary frost hath candied all the plains;
And every barn rings with the thrashing flails,
And shepherd-boys for cold do blow their nails.

M D	☉ rises h	m	☉ sets h	m
1	7	26	4	34
2	7	24	4	36
F 3	7	23	4	37
4	7	21	4	39
5	7	19	4	41
6	7	17	4	43
7	7	15	4	45
8	7	14	4	46
9	7	12	4	48
F 10	7	10	4	50
11	7	8	4	52
12	7	6	4	54
13	7	4	4	56
14	7	3	4	57
15	7	1	4	59
16	6	59	5	1
F 17	6	57	5	3
18	6	55	5	5
19	6	53	5	7
20	6	51	5	9
21	6	49	5	11
22	6	47	5	13
23	6	45	5	15
F 24	6	43	5	17
25	6	41	5	19
26	6	39	5	21
27	6	38	5	22
28	6	36	5	24

OBSERVATIONS.

For, by what we see in this part of the universe, where we inhabit, we have reason to conclude, that happiness is allotted to every order and rank of beings, suitable to their several capacities, through the whole.

God, as he fram'd the whole, the whole to bless,
On mutual wants built mutual happiness.

Having shewn the infinite power and goodness of God, his infinite wisdom will also appear in the works of his creation.

Of VEGETATION *and* ATTRACTION.

VEGETATION, or the growth of all sorts of plants from the smallest spire of grass to the tallest oak, with the production of all kinds of fruits, herbs, roots, grains, and medicinal plants, is brought about by the same simple and uniform principle or cause of attraction, with which all bodily substances are endued: whereby the small tubes of the infinite number composing each vegetable, gradually draw in the fluid nourishment, which enlarges the size thereof; and being concocted by the sun's heat, they are matured, and thereby brought to perfection.

Last Quarter the 5th day, at 3 in the afternoon.
New Moon the 12th day, at 6 in the morning.
First Quarter the 19th day, at noon.
Full Moon the 27th day, at 4 in the afternoon.

M D	♄ ♈	♃ ♐
1	29	2
6	29	2
11	30	2
16	♉	2
21	1	2
26	2	2

M D	W D	Remarkable Days, &c.	☉ ♓	☽ longitude	☽ rises and sets	♂ ♓	♀ ♈	☿ ♓	Mut. Aspects and Weather
1	F	David	11	21 ♎ 31	9 a 27	29	27	3	Some moist
2	S	Chad.	12	4 ♏ 14	10 36	30	28	5	air, and
3	F	3 S. in Lent	13	17 12	11 45	♈	29	7	☌ ♄ ♀
4	M		14	0 ♐ 28	morn	1	30	8	windy.
5	T		15	14 2	0 52	2	♉	10	△ ♃ ♂
6	W		16	27 55	1 58	3	2	12	Cold rain or
7	T	Perpetua	17	12 ♑ 8	2 58	3	3	14	snow.
8	F		18	26 38	3 50	4	4	16	
9	S		19	11 ♒ 22	4 35	5	5	18	Some bluf-
10	F	Midlent Sun.	20	26 14	5 14	6	6	20	☌ ☉ ☿
11	M		21	11 ♓ 7	5 50	6	7	22	tering winds
12	T	Gregory M	22	25 52	☽ sets	7	8	24	(March like)
13	W		23	10 ♈ 24	7 a 36	8	9	26	now take
14	T		24	24 35	8 49	9	10	28	place.
15	F		25	8 ♉ 22	9 59	9	11	30	
16	S		26	21 44	11 7	10	12	♈	△ ♃ ☿
17	F	5 S. in Lent	27	4 ♊ 41	morn	11	13	4	St. Patrick
18	M	Ed. K. W. S.	28	17 17	0 14	12	14	6	
19	T		29	29 33	1 13	13	15	8	Month ends
20	W		♈	11 ♋ 36	2 4	13	16	10	with pretty
21	T	Benedict	1	23 30	2 48	14	17	12	good wea-
22	F	Cam. T. ends.	2	5 ♌ 19	3 25	15	18	13	ther,
23	S	Oxf. T. ends.	3	17 8	4 0	16	19	15	☌ ♂ ☿
24	F	Palm Sunday	4	29 1	4 30	16	20	17	though not
25	M	Anun. Lad. d	5	11 ♍ 1	4 58	17	21	19	
26	T		6	23 12	5 21	18	22	21	without rain
27	W		7	5 ♎ 34	☽ rises	19	23	23	
28	T	Maundy Th.	8	18 10	7 a 24	19	24	24	or fleet.
29	F	Good Friday	9	1 ♏ c	8 34	20	25	26	
30	S		10	14 3	9 44	21	26	28	
31	F	Easter Day	11	27 20	10 52	22	26	29	

When bleak Boreas on his frozen wings,
The dreadful winter's gloomy ſeaſon brings.
The froſt that whitens the deſcending rain
Stiffens each field, each moving water chains;
But Sol, in this month, his wanton beams diſplay,
And kindly melts the ſtubborn froſt away.

M D	☉ riſes h	m	☉ ſets h	m
1	6	3	5	26
2	6	32	5	28
F 3	6	30	5	30
4	6	28	5	32
5	6	26	5	34
6	6	24	5	36
7	6	22	5	38
8	6	20	5	40
9	6	18	5	42
F 10	6	16	5	44
11	6	14	5	46
12	6	12	5	48
13	6	10	5	50
14	6	8	5	52
15	6	6	5	54
16	6	4	5	56
F 17	6	2	5	58
18	6	0	6	0
19	5	58	6	2
20	5	56	6	4
21	5	54	6	6
22	5	52	6	8
23	5	50	6	10
F 24	5	48	6	12
25	5	46	6	14
26	5	44	6	16
27	5	42	6	18
28	5	40	6	20
29	5	38	6	22
30	5	36	6	24
F 31	5	34	6	26

OBSERVATIONS.

That there is ſuch a principle as attraction in nature, appears by the experiment of a ſmall glaſs tube or pipe; one end of which being immerſed in a high-coloured liquor, the fluid will always viſibly aſcend to a conſiderable height.

The beating of the heart, and circulation of the blood in man, and all other creatures, is aſcribed in the ſame manner to ſome general or ſimple cauſe, whether it be the weight of the atmoſphere, or whatever elſe. Sir Iſaac Newton has made it plainly appear, that it is by one ſimple and uniform cauſe, that a ſtone, or other heavy body, falls to the ground, and that the moon, and all the planets, ſatellites, and comets are kept in their orbits, and made to revolve round their reſpective centres of gravitation or attraction.

SEASONS PRODUCED.

It is alſo known, that the whole variety of ſeaſons is owing to the moſt ſimple and obvious contrivance that can be imagined; that is, to the inclination of the earth's axis with the plane of the ecliptic.

APRIL xxx Days

M D	♄ ♉	♅ ♐
1	2	2
6	3	1
11	4	1
16	4	1
21	5	0
26	6	0

aſt Quarter the 3d day, at 11 at night.
ew Moon the 10th day, at 5 in the afternoon
rſt Quarter the 18th day, at 6 in the morning.
ull Moon the 26th day, at 5 in the morning.

V D	Remarkable Days, &c.	☉ ♈	☽ lon gitude	☽ riſes and ſets	♂ ♈	♀ ♉	☿ ♉	Mut. Aſpects and Weather.
1	Eaſter Mond.	12	10♐51	11 a 59	22	27	1	
2	Eaſter Tueſd.	13	24 33	morn	23	28	2	☌ ♄ ☿
W	Rd. Bp. Chi.	14	8♑27	1 0	24	29	3	I expect
T	St. Ambroſe	15	22 32	1 55	25	30	4	ſhowers,
F	Old Lady d.	16	6♒45	2 42	25	℞	5	☍ ♅ ♂
S		17	21 6	3 22	26	1	6	with wind
S	Low Sunday	18	5♓31	3 56	27	2	7	now about.
M		19	19 58	4 28	28	3	8	
T		20	4♈20	4 57	28	4	9	
W	Ox.&Ca.T.b.	21	18 33	☽ ſets	29	4	9	Pretty good
T		22	2♉32	7 a 50	30	5	9	weather
F		23	16 13	9 3	♉	6	10	now, but it
S		24	29 33	10 8	1	7	10	will not
S	2 S. aft. Eaſter	25	12♊31	11 9	2	7	9	pleaſe ſome.
M		26	25 8	morn	3	8	R	
T		27	7♋27	0 5	4	8	10	
W	EaſterTermb.	28	19 32	0 51	4	9	10	☌ ♄ ♂
T		29	1♌26	1 32	5	10	9	Pleaſant
F	Alphege	♉	13 16	2 8	6	10	9	ſhowers,
S		1	25 6	2 40	6	11	9	perhaps
S	3 S. aft. Eaſter	2	7♍1	3 8	7	11	8	☌ ♂ ☿
M		3	19 6	3 32	8	12	8	thunder.
T	St. George	4	1♎24	3 55	9	12	7	
W		5	14 0	4 20	9	13	℞	☌ ☉ ♄
T	St. M. P. M. b.	6	26 53	4 46	10	13	6	☌ ♄ ☿, ☌ ☉ ☿
F		7	10♏4	☽ riſes	11	13	5	Winds, with
S		8	23 33	8 46	12	14	4	cold rain
S	4 S. aft. Eaſter	9	7♐16	9 55	12	14	4	now about.
M		10	21 10	11 1	13	14	3	
T		11	5♑12	11 58	14	15	3	

And now the winter horrors diſappear,
And April views with ſmiles the enſuing year;
The grateful earth, from frosty chains unbound,
Pours out its vernal treaſures all around;
Her face bedeck'd with graſs, with birds the trees are crown'd.

M D	⊙ riſes h	m	⊙ ſets h	m
1	5	32	6	28
2	5	30	6	30
3	5	28	6	32
4	5	26	6	34
5	5	24	6	36
6	5	22	6	38
F	5	20	6	40
8	5	18	6	42
9	5	17	6	43
10	5	15	6	45
11	5	13	6	47
12	5	11	6	49
13	5	9	6	51
F	5	7	6	53
15	5	5	6	55
16	5	3	6	57
17	5	1	6	59
18	4	59	7	1
19	4	57	7	3
20	4	56	7	4
F	4	54	7	6
22	4	52	7	8
23	4	50	7	10
24	4	48	7	12
25	4	46	7	14
26	4	45	7	15
27	4	43	7	17
F	4	41	7	19
29	4	39	7	21
30	4	37	7	23

OBSERVATIONS.

EFFECTS of WARMTH.

What a number of important effects are produced by a ſmall degree of warmth, that depends upon the preciſe ſituation of our earth, at ſuch a diſtance from the ſun, as is ſuitable to the ſtate of its inhabitants? Every obſerver may purſue this conſideration in his own mind, who will find the truth of the obſervation hold good univerſally throughout the *works* of all nature.

Several noble ends produced from one element or cauſe.

Another general obſervation may be made on the works of creation, ſetting forth the Divine Wiſdom, as much as any of the wiſe contrivances that can be remarked; which is, that there is not one part or member of the immenſe whole, but what ſerves to ſeveral different purpoſes at the ſame time, and anſwers each of its various ends as fully as if it had been intended for that one ſingle purpoſe. We may conſider, under this head, every ſpecies of the brute creation, which at the ſame time were made to enjoy a certain

Last Quarter the 3d day, at 4 in the morning.
New Moon the 10th day, at 4 in the morning.
First Quarter the 16th day, at 1 in the morning.
Full Moon the 25th day, at 4 in the afternoon.

M D	☽ ♉	☊ ♍
1	6	29
6	7	29
11	7	28
16	8	27
21	9	27
26	9	26

M D	W D	Remarkable Days, &c.	☉ ♉	☽ longitude ♉	☽ rises and sets.	♂ ♉	♃ ♊	♀ ♉	Mut. Aspects and Weather.
1	W	St. Phil. & Ja.	12	19♑18	morn	15	15	2	Frosty air,
2	♈		12	3♒27	0 49	15	15	2	and a little
3	F	Inv. of Cross	13	17 35	1 29	16	15	1	windy.
4	S		14	1♓43	2 5	17	15	1	
5	F	Rogation Su.	15	15 48	2 37	17	R	1	
6	M	J. Ev. a P. L.	16	29 49	3 6	18	15	0	More warm
7	T		17	13♈45	3 32	19	15	0	
8	W		18	27 33	4 0	20	15	D	now for se-
9	T	Asc. Hol. Th.	19	11♉10	4 28	20	15	0	
10	F		20	24 34	☽ sets	21	15	0	veral days.
11	S		21	7♊41	9 a 6	22	15	0	
12	♉	S. aft. Ascen.	22	20 31	9 59	22	15	1	O. May-day
13	M	Easter T. ends.	23	3♋3	10 49	23	14	1	♂ ☉ ♂
14	♈		24	15 20	11 34	24	14	1	Hail and
15	W		25	27 23	morn	25	14	2	rain, if not
16	♈	Oxf. T. ends.	26	9♌17	0 12	25	13	2	thunder,
17	F		27	21 7	0 44	26	13	3	☿ ☉ ♃
18	S		28	2♍56	1 12	27	12	4	☿ ♃ ♂
19	♉	Wh. S. Q. C. b	29	14 52	1 37	27	12	4	Dunstan
20	M	Whit Mond.	♊	26 59	2 1	28	11	5	near this
21	T	Whit Tuesd.	1	9♎22	2 25	29	11	6	time.
22	W	Ember Week	2	22 5	2 49	30	10	7	Prs. Eliz. b.
23	T		3	5♏11	3 14	♊	10	8	Brisk winds,
24	F		4	18 40	3 44	1	9	9	♂ ♄ ☿
25	S		5	2♐30	☽ rises	2	9	10	with some
26	♉	Trinity Sund.	6	16 39	8 a 48	2	8	11	August. Abp.
27	M	Vener. Bede	7	1♑0	9 51	3	7	12	♂ ☉ ♀
28	T		8	15 27	10 45	4	7	13	showers.
29	W	K. Ch. II. res.	8	29 55	11 31	4	6	15	Oxf. T. beg.
30	T	Corp. Christi	9	14♒18	morn.	5	5	16	♂ ♂ ♀
31	F	Trin. T. beg.	10	28 34	0 9	6	5	17	

Sol ſheds on earth his pleaſant lightſome beams,
That trembling ſhine in many colour'd ſtreams;
Slow riſing from the marſh, the miſt recedes,
The trees emerging rear their dewy heads:
Their dewy heads the ſun with pleaſure views,
And brightens into pearls the pendant dews.

M D	⊙ riſes h	m	⊙ ſets h	m
1	4	36	7	24
2	4	34	7	26
3	4	32	7	28
4	4	31	7	29
F	4	29	7	31
6	4	27	7	33
7	4	25	7	35
8	4	24	7	36
9	4	22	7	38
10	4	21	7	39
11	4	19	7	41
F	4	18	7	42
13	4	16	7	44
14	4	14	7	46
15	4	13	7	47
16	4	12	7	48
17	4	10	7	50
18	4	9	7	51
F	4	7	7	53
20	4	6	7	54
21	4	5	7	55
22	4	3	7	57
23	4	2	7	58
24	4	1	7	59
25	4	0	8	0
F	3	58	8	2
27	3	57	8	3
28	3	56	8	4
29	3	55	8	5
30	3	54	8	6
31	3	53	8	7

OBSERVATIONS.

portion of happineſs, were alſo made to ſerve either for our nouriſhment, for the culture of our lands, for our clothing, for food to other creatures deſtined for our nouriſhment, and other uſes of creation ſubſervient to one another. In like manner we may conſider the air anſwering the end of reſpiration, which it ſerves for the conveyance of the winged race, for navigation, for raiſing clouds and vapours, from whence dew and rain deſcend to the earth, ſo neceſſary for vegetation; for correcting and clearing the earth of noxious and peſtilential vapours, by means of its currents or winds; for refracting or bending the ſun's rays, by which means we enjoy his light, both before he is riſen, and after he is ſet; and to which cauſe we owe the grateful morning and evening twilight; for working ſeveral machines, windmills, and the like; for being the vehicle of all manner of ſound, and producing the noble effects of muſic, from all kinds of muſical inſtruments; and various other important purpoſes; among which it may be obſerved, that gunpowder is of uſe only by means of air, and would be entirely uſeleſs without it. And in the

Laſt Quarter the 1ſt day, at 10 in the morning.
New Moon the 8th day, at 3 in the afternoon.
Firſt Quarter the 16th day, at 6 in the afternoon.
Full Moon the 23d day, at midnight.
Laſt Quarter the 30th day, at 3 in the afternoon

M D	♄ ♉	♅ ♍
1	10	25
6	11	25
11	11	24
16	12	24
21	12	23
26	13	23

M D	W D	Remarkable Days, &c.	☉ ♊	☽ Longitude	☽ rises and ſets	♂ ♊	♀ ♊	♃ ♉	Mut. Aſpects and Weather
1	S	Nicomede	11	12♐40	0 m 43	7	4	19	Pleaſant
2	☽	1 S. af. Trin.	12	26 35	1 10	7	4	20	winds and
3	M		13	10♑21	1 36	8	3	22	flying
4	T	K. Geo. III. b.	14	23 56	2 3	9	3	23	clouds.
5	W	Pr. Ern. Au. b.	15	7 ♉ 21	2 29	9	2	25	Boniface
6	T		16	20 34	3 0	10	2	27	
7	F		17	3 ♊ 36	3 33	11	1	28	A fine grow-
8	S		18	16 25	☽ ſets	11	1	30	☌ ☿ ♅
9	☽	2 S. af. Trin.	19	29 0	8 a 40	12	0	♊	ing time.
10	M		20	11♋22	9 27	13	0	4	
11	T	St. Barnabas	21	23 32	10 7	14	♉	5	Some little
12	W		22	5♌31	10 42	14	29	7	
13	T		23	17 22	11 13	15	29	9	rain, ſoon
14	F		24	29 10	11 38	16	29	11	fine again.
15	S		25	10♍58	morn	16	29	13	
16	☽	3 S. aft. Trin.	26	22 53	0 3	17	29	15	
17	M	St. Alban	27	5♎ 0	0 24	18	☽	17	☍ ☌ ♅
18	T		28	17 23	0 47	18	29	19	Hot, with
19	W	Trin. T. ends	29	0♏ 8	1 11	19	29	22	
20	T	Tr. Ed. K. W. S.	30	13 19	1 37	20	29	24	thunder in
21	F	Longeſt day	♋	26 56	2 8	20	29	26	ſome places.
22	S		1	10♐59	2 45	21	29	28	
23	☽	4 S. aft. Trin.	2	25 25	☽ riſes	22	29	♋	
24	M	Nat. of J. Bapt.	3	10♑ 7	8 a 32	22	29	2	Midſum. D.
25	T		4	24 58	9 22	23	30	5	[☍ ☉ ♅
26	W		5	9♒49	10 3	24	30	7	Some
27	T		6	24 33	10 39	24	♊	9	ſhowers, and
28	F		7	9♓ 4	11 9	25	0	11	✱ ♄ ♅
29	S	St. Peter	8	23 20	11 37	26	1	13	fine weather
30	☽	5 S. aft. Trin.	9	7♈17	morn	27	1	15	to the end.

Now days grow long by Sol's reviving rays,
Leaves grace the trees, and light prolongs the days.
With virgin beauties, Flora chaſte and fair,
Pride of the ſpring, perfumes the ambient air;
And now thro' Cancer Phœbus takes his way,
Contracts the ſhades, and lengthens out the day.

M D	☉ riſes h	m	☉ ſets h	m
1	3	52	8	8
F	3	51	8	9
3	3	51	8	9
4	3	50	8	10
5	3	49	8	11
6	3	48	8	12
7	3	48	8	12
8	3	47	8	13
F	3	46	8	14
10	3	46	8	14
11	3	45	8	15
12	3	45	8	15
13	3	44	8	16
14	3	44	8	16
15	3	44	8	16
F	3	43	8	17
17	3	43	8	17
18	3	43	8	17
19	3	43	8	17
20	3	43	8	17
21	3	43	8	17
22	3	43	8	17
F	3	43	8	17
24	3	43	8	17
25	3	43	8	17
26	3	44	8	16
27	3	44	8	16
28	3	44	8	16
29	3	45	8	15
F	3	45	8	15

OBSERVATIONS.

ſame manner any other elementary part of nature may be conſidered as miniſtering to different ends; as we may find the minuteſt object we can caſt our eyes or turn our minds upon, is made to anſwer more purpoſes than one.

An ingenious mechanic is admired for the exactneſs of his machine, made to anſwer the ſingle purpoſe it was deſigned for; and more purpoſes are not expected from its curious contrivance. A good water engine could never anſwer the end of an aſtronomical clock, an air-pump, and windmill at the ſame time; and the more complicated the human machine, the leſs perfect and exact are the movements. In the Divine contrivances and workmanſhip, it is far otherwiſe; where we may obſerve innumerable and different important purpoſes produced by one ſimple and uniform cauſe, and all their purpoſes or effects as regularly and properly brought about, as if a diſtinct cauſe had been appointed to produce each ſingle deſign.

Variety and Uniformity throughout the Creation.

Another general obſervation of the wiſdom that appears in the Divine Workmanſhip is, that throughout the known

New Moon the 8th day, at 5 in the morning.
Firſt Quarter the 16th day, at 9 in the morning.
Full Moon the 23d day, at 7 in the morning.
Laſt Quarter the 29th day, at 11 at night.

M D	♄ ♉	♃ ♍
1	13	23
6	14	22
11	14	22
16	14	22
21	15	22
26	15	22

M D	W D	Remarkable Days, &c.	☉ ♌	☽ Longitude	☽ riſes and ſets	♂ ♊	♀ ♊	☿ ♌	Mut. Aſpects and Weather.
1	M		10	20 ♈ 58	0 m 3	27	2	17	Weather
2	T	Viſitat. V. M	11	4 ♉ 21	0 29	28	2	19	Camb. Com.
3	W	Dog Days b.	12	17 30	☽ 58	29	3	22	fit for the
4	T	Tr. St. Mart.	13	0 ♊ 25	1 29	29	3	24	ſeaſon, plea-
5	F	Cam. T. ends	14	13 8	2 4	30	4	25	Old Midſ. d.
6	S		15	25 38	2 45	♋	4	27	ſant.
7	☽	6 S. aft. Trin.	16	7 ♋ 58	3 29	1	5	29	Th. à Becket
8	M	Oxford Act	17	20 7	☽ ſets	2	5	♌	
9	T		18	2 ♌ 7	8 a 38	3	6	3	Some flying
10	W		19	14 0	9 9	3	6	5	ſhowers,
11	T		20	25 48	9 36	4	7	7	✶ ☿ ☿
12	F		20	7 ♍ 34	10 2	5	8	8	ſoon after
13	S	Oxf. T. ends	21	19 23	10 25	5	8	10	change of the
14	☽	7 S. aft. Trin.	22	1 ♎ 17	10 47	6	9	12	moon.
15	M	St. Swithin	23	13 23	11 10	7	10	14	□ ♄ ☿
16	T		24	25 45	11 35	7	11	15	
17	W		25	8 ♏ 28	morn	8	11	17	Rather
18	T		26	21 36	0 3	9	12	18	windy now
19	F		27	5 ♐ 12	0 37	9	13	20	about.
20	S	Margaret	28	19 16	1 17	10	14	21	□ ♅ ☿
21	☽	8 S. aft. Trin.	29	3 ♑ 46	2 5	11	14	23	
22	M	Magdalen	♌	18 37	3 5	11	15	24	Some
23	T		1	3 ♒ 41	☽ riſes	12	16	26	ſhowers.
24	W		2	18 50	8 a 32	13	17	27	
25	T	St. James	3	3 ♓ 53	9 7	13	18	28	Hot, and
26	F	St. Anne	4	18 42	9 36	14	19	30	perhaps
27	S		5	3 ♈ 12	10 4	15	20	♍	✶ ♄ ♂
28	☽	9 S. aft. Trin.	6	17 20	10 32	15	20	2	thunder in
29	M		7	1 ♉ 5	10 59	16	21	3	
30	T		8	14 27	11 31	17	22	5	ſome places.
31	W		9	27 29	morn	17	23	6	

Now Sirius and the raging lion ſways,
And Phœbus brings forth dry and parched days.
The ſhepherd tir'd, with his faint flock doth hie
To ſome cool ſhade, or murmuring current nigh;
And labouring men, ſeeing the ſun decline,
Take up their bags, and ſet them down to dine.

M D	☉ riſes h	m	☉ ſets h	m
1	3	46	8	14
2	3	46	8	14
3	3	47	8	13
4	3	47	8	13
5	3	48	8	12
6	3	49	8	11
F	3	49	8	11
8	3	50	8	10
9	3	51	8	9
10	3	52	8	8
11	3	53	8	7
12	3	54	8	6
13	3	55	8	5
F	3	56	8	4
15	3	57	8	3
16	3	58	8	2
17	3	59	8	1
18	4	0	8	0
19	4	2	7	58
20	4	3	7	57
F	4	4	7	56
22	4	5	7	55
23	4	7	7	53
24	4	8	7	52
25	4	10	7	50
26	4	11	7	49
27	4	12	7	48
F	4	14	7	46
29	4	15	7	45
30	4	17	7	43
31	4	18	7	42

OBSERVATIONS.

univerſe, there appears an aſtoniſhing variety, united with the moſt regular uniformity; and uniformity amidſt variety is the idea of beauty and perfection, which two properties ſeem to vie with each other, as far as our reſearches in nature extend. If we conſider either the animal or vegetable world, the inhabitants of land, or of the waters, the minute or the great bodies in nature, in every reſpective ſpecies, the variety how extenſive! yet the uniformity how cloſe! The difference between the ſpreading oak or towering cedar, and the humble ſhrub, how great! yet the reſemblance how near! Nor are there any two trees or plants of different ſpecies but what differ eſſentially; nor even any two of the ſame ſpecies to be found exactly alike; yet are all formed on the ſame general plan; all produced from ſeeds, and vegetating in the ſame uniform manner, from the ſame principle.

Again, it may be obſerved, how many millions of the animalcula diſcovered by the help of microſcopes in vinegar, in pepper-water, in infuſions of almoſt all kinds of vegetable ſubſtances, and indeed throughout the air, earth and water, would

New Moon the 6th day, at 8 in the afternoon.
First Quarter the 14th day, at 9 at night.
Full Moon the 21st day, at 3 in the afternoon.
Last Quarter the 28th day, at 9 in the morning.

M D	♄ ♍	♅ ♏
1	15	22
6	15	23
11	16	23
16	16	23
21	16	24
26	16	24

M D	W D	Remarkable Days, &c.	☉ ♌	☽ Longitude	☽ rises and sets	♂ ♎	♀ ♊	☿ ♍	Mut. Aspects and Weather.
1	T	Lammas day	10	10 ♊ 14	0 m 5	18	24	7	Fine warm,
2	F		11	22 43	0 44	18	25	8	ſummer wea-
3	S		11	4 ♎ 59	1 26	19	26	9	ther; ſo con-
4	F	10 S. af. Trin.	12	17 5	2 16	20	27	10	tinues ſeveral
5	M		13	29 4	3 9	20	28	11	
6	T	Transfiguрat.	14	10 ♌ 56	☽ ſets	21	29	11	days.
7	W	Prs. Amelia b.	15	22 45	7 a 34	22	30	12	
8	T	[N. of Jeſus	16	4 ♍ 31	8 7	22	♎	13	△♅ ♂, □☉ ♄
9	F		17	16 19	8 30	23	2	14	Cloudy air,
10	S	St. Lawrence	18	28 10	8 54	24	3	14	with
11	F	11 S. af. Trin.	19	10 ♎ 7	9 15	24	4	15	Prs. Brunſ. b.
12	M	Pr. of Wales b.	20	22 16	9 40	25	5	15	[D. da. e.
13	T	[O. Lam.	21	4 ♍ 38	10 6	26	6	16	△ ♄ ☿
14	W		22	17 19	10 36	26	7	16	rain, if not
15	T	Aſſumption	23	0 ♐ 23	11 12	27	8	16	□ ☉ ♅
16	F	D. of York b.	24	13 51	11 55	28	9	16	ſome thun-
17	S		25	27 47	morn	28	10	R	der ſtorms.
18	F	12 S. af. Trin.	26	12 ♑ 8	0 49	29	11	16	
19	M		27	26 54	1 52	29	12	16	Flying
20	T		28	11 ♒ 56	3 4	♌	13	16	clouds.
21	W	D. of Clare. b.	29	27 8	☽ riſes	1	14	16	△ ♄ ☿
22	F		♍	12 ♓ 19	7 a 38	1	15	15	* ♀ ☿
23	F		1	27 21	8 8	2	16	15	* ♄ ♀
24	S	St. Bartholo.	2	12 ♈ 5	8 37	3	17	14	Some rain
25	F	13 S. af. Trin.	3	26 26	9 5	3	18	13	
26	M		4	10 ♉ 21	9 36	4	19	13	now, and at
27	T		5	23 49	10 10	5	20	12	the end of
28	W	St. Auguſtine	6	6 ♊ 53	10 48	5	21	11	
29	T	Beh. J. Bapt.	7	19 34	11 30	6	22	10	♂ ☉ ☿
30	F		7	1 ♎ 57	morn	6	23	9	△ ♅ ♀
31	S		8	14 6	0 16	7	24	8	the month.

Now in this month kind Ceres doth us bring
All that was promiſed in the hopeful ſpring.
The prudent harveſt-man, with ſweating brow,
Doth reap the int'reſt of his painful plough;
The reapers panting, both with heat and pain,
With crooked razors, ſhave the tufted plain.

M D	⊙ riſes h	m	⊙ ſets h	m
1	4	20	7	40
2	4	22	7	38
3	4	23	7	37
F	4	25	7	35
5	4	26	7	34
6	4	28	7	32
7	4	30	7	30
8	4	31	7	29
9	4	33	7	27
10	4	35	7	25
F	4	37	7	23
12	4	38	7	22
13	4	40	7	20
14	4	42	7	18
15	4	44	7	16
16	4	45	7	15
17	4	47	7	13
F	4	49	7	11
19	4	51	7	9
20	4	53	7	7
21	4	54	7	6
22	4	56	7	4
23	4	58	7	2
24	5	0	7	0
F	5	2	6	58
26	5	4	6	56
27	5	6	6	54
28	5	8	6	52
29	5	9	6	51
30	5	11	6	49
31	5	12	6	47

OBSERVATIONS.

go to make up the weight of an elephant or a whale? Yet each animalcula, though of a ſize ſo ſmall, as ſome are known to be, that a grain of ſand is big enough to cover and ſmother ten thouſand of them, has a body, head, eyes, and mouth, and probably a brain and heart, and, without doubt, veins, arteries, and a fluid circulating through them; and alſo nerves, muſcles, tendons, and moſt of the parts of the largeſt animals. How different are the elements of air and water, ſo that the inhabitants of one cannot, generally ſpeaking, ſubſiſt in the other? Yet theſe elements or fluids, agree in moſt of their uniform properties. How different is the manner of life of the inhabitants of land and water? Yet how nearly allied to one another in the frame of their bodies and ſenſes. And how endleſs variety appears in the properties and effects of different material ſubſtances. How different a lump of lead from a piece of cork? An ingot of gold half a foot long and half an inch thick, capable of being drawn out into a wire to reach from London to York; how different from the ſubſtance of a rock, or ſand of the mine, in which this metal is found? And how different that wonder of nature, the loadſtone, in the effects it produces, from the common pebble. Quickſilver, by chemical operation, is capable of numerous changes, in its colour and

M D	♄ ♉	♃ ♏
1	16	25
6	16	26
11	16	26
16	15	27
21	15	28
26	15	29

New Moon the 5th day, at noon.
First Quarter the 13th day, at 8 in the morning.
Full Moon the 19th day, at 11 at night.
Last Quarter the 26th day, at midnight.

M D	W D	Remarkable Days, &c.	☉ ♍	☽ Longitude	☽ rises and sets	♂ ♌	♀ ♋	☿ ♍	Mut. Aspects and Weather
1	F	14 S. af. Trin.	9	26 ♋ 4	1 m 9	8	25	7	Giles
2	M	Lon. bu. 1666	10	7 ♌ 56	2 5	8	27	6	Seasonable
3	T		11	19 43	3 4	9	28	5	and fine
4	W		12	1 ♍ 30	4 6	10	29	5	weather be-
5	T		13	13 19	☽ sets	10	30	4	gins this
6	F		14	25 11	7 a 6	11	♌	3	month.
7	S	Enurchus.	15	7 ♎ 10	7 29	12	2	3	
8	F	15 S. af. Trin.	16	19 17	7 52	12	3	3	Nativ. V.
9	M		17	1 ♏ 34	8 18	13	4	D	
10	T		18	14 3	8 47	13	5	3	Now it be-
11	W		19	26 48	9 18	14	7	3	gins to cloud
12	T		20	9 ♐ 51	9 58	15	8	3	with rain,
13	F		21	23 14	10 47	15	9	4	□ ♄ ♂
14	S		22	6 ♑ 5[illegible]	11 43	16	10	4	and perhaps
15	F	16 S. af. Trin.	23	21 6	morn	17	11	5	thunder.
16	M		24	5 ♒ 35	0 51	17	12	6	
17	T	Lambert	25	20 21	2 5	18	13	7	
18	W	Ember Week	26	5 ♓ 20	3 25	18	15	8	□ ♄ ♀
19	T		27	20 25	☽ rises	19	16	10	Cooling
20	F		28	5 ♈ 25	6 a 42	20	17	11	showers, and
21	S	St. Matthew	29	20 14	7 12	20	18	12	
22	F	17 S. af. Trin	♎	4 ♉ 42	7 43	21	19	14	K. G. III. cr.
23	M		1	18 45	8 16	22	20	16	[△ ♄ ☿
24	T		2	2 ♊ 21	8 52	22	21	17	winds.
25	W	Holy Cross	3	15 31	9 34	23	23	19	☌ ♂ ♀
26	T	St. Cyprian	4	28 15	10 21	23	24	21	Unsettled
27	F		5	10 ♋ 38	11 12	24	25	22	weather,
28	S		6	22 45	morn	25	26	24	
29	F	18 S. a. T. S. M.	7	4 ♌ 40	0 7	25	27	26	Prs. Royal b.
30	M	St. Jerome	8	16 29	1 6	26	28	28	□ ♃ ♀
									with rain.

Now comes the time when Libra juſtly weighs,
And makes the nights juſt equal with the days;
Here Phœbus ſtops, and gently doth decline,
To reaſſume the equinoctial line:
The days contract, the lengthened ſhadows fly,
The trembling leaves forſake their trees, and die.

M D	☉ riſes h	m	☉ ſets h	m
F	5	15	6	45
2	5	17	6	43
3	5	19	6	41
4	5	21	6	39
5	5	23	6	37
6	5	25	6	35
7	5	27	6	33
F	5	29	6	31
9	5	31	6	29
10	5	32	6	28
11	5	34	6	26
12	5	36	6	24
13	5	38	6	22
14	5	40	6	20
F	5	42	6	18
16	5	44	6	16
17	5	46	6	14
18	5	48	6	12
19	5	50	6	10
20	5	52	6	8
21	5	54	6	6
F	5	56	6	4
23	5	58	6	2
24	6	0	6	0
25	6	2	5	58
26	6	4	5	56
27	6	6	5	54
28	6	8	5	52
F	6	10	5	50
30	6	12	5	48

OBSERVATIONS.

conſiſtence, which in one ſtate is a deadly poiſon, and in another a noble medicine; which may be forced by fire into a hundred different ſhapes, yet, after all, may be reduced to its original running mercury. And the life of man is too ſhort to make all the experiments that the mineral called antimony is capable of, in the various changes it may undergo in its form, and noble effects, to be thence derived on the human body. A little rain-water ſtrained through the veſſels of the vine, forms its roots, the wood, the bark the pith, the leaves, the bloom, and the fruit, all different in qualities, as well in their outward appearances and effects; yet come all under the diſtinction of one general claſs of vegetable ſubſtances.

Various Productions of the Vine.

The fruit of the vine, before it is ripe, yields verjuice, a liquor quite different from all other vinous ones, which, when ripe, and dried in the ſun, affords a fœtid oil, and hot ſpirit, by diſtillation. If the grapes be dried and boiled, they make a ſweet liquor, which being diſtilled yields an oil and ſpirit much like thoſe from raiſins; the juice of the grape ſqueezed out and fermented becomes firſt a ſweet and turbid liquor, called muſt, which is quite different in nature and effects from

M D	☽ ♑	♄ ♉	♅ ♍
	1	15	29
	6	14	♐
	11	14	1
	16	14	2
	21	13	3
	26	13	4

New Moon the 5th day, at 5 in the morning.
First Quarter the 12th day, at 5 in the afternoon.
Full Moon the 19th day, at 9 in the morning.
Last Quarter the 26th day, at 6 in the afternoon.

M D	W D	Remarkable Days, &c.	☉ ♎	☽ Longitude	☽ rises and sets	♂ ♌	♀ ♌	☿ ♍	Mut. Aspects and Weather
1	T	Remigius	9	28 ♌ 15	2 m 6	26	30	29	✶ ♅ ☿
2	W		10	10 ♍ 3	3 10	27	♍	♎	Some windy
3	T		11	21 56	4 12	28	2	3	weather be-
4	F		12	3 ♎ 57	5 15	28	3	5	gins the
5	S		13	16 8	☽ sets	29	4	6	month.
6	☩	19 S. af. Trin.	14	28 29	6 a 31	30	6	8	Faith.
7	M		15	11 ♎ 2	6 58	♍	7	10	
8	T		16	23 47	7 29	1	8	12	□ ♅ ♂
9	W	St. Denys.	17	6 ♐ 45	8 7	1	9	13	Good wea-
10	T	Ox. & Ca. T. b.	18	19 57	8 52	2	10	15	Old Mich. d.
11	F		19	3 ♑ 22	9 43	3	11	17	ther now
12	S		20	17 3	10 44	3	13	19	about.
13	☩	20 S. af. Trin.	21	0 ♒ 59	11 52	4	14	20	Tr. K. Ed. C
14	M		22	15 10	morn	4	15	22	△ ♄ ☿, ☌ ☉ ☿
15	T		23	29 35	1 9	5	16	24	Wi d and
16	W		24	14 ♓ 12	2 28	6	17	25	
17	T	Etheldred	25	28 55	3 47	6	19	27	rain about
18	F	St. Luke	26	13 ♈ 39	5 9	7	20	29	this time.
19	S		27	28 15	☽ rises	7	21	♍	
20	☩	21 S. af. Trin.	28	12 ♉ 38	6 a 16	8	22	2	Cold morn-
21	M		29	26 41	6 52	9	24	4	ings, and
22	T		♍	10 ♊ 15	7 33	9	25	5	unsettled.
23	W		1	23 31	8 17	10	26	7	
24	T		2	6 ♋ 19	9 7	10	27	8	
25	F	K. G. III. acce.	3	18 45	10 3	11	28	10	Crispin
26	S	K. G. III. proc.	4	0 ♌ 54	11 0	12	30	12	☍ ♄ ☿, ✶ ♂ ☿
27	☩	22 S. af. Trin.	5	12 49	11 59	12	♎	13	Cold drying
28	M	St. Sim. & Jude	6	24 38	morn	13	2	15	△ ♄ ♂
29	T		7	6 ♍ 25	1 2	13	3	16	winds.
30	W		8	18 15	2 5	14	4	18	✶ ♅ ♀
31	T		9	0 ♎ 13	3 9	15	6	19	

The little birds which did ſalute the morn,
As thro' the clouds look on the trees with ſcorn,
Now on the naked boughs muſt ſet the foot,
The leaves now lying on the moſſy root.
They praiſe fair ſummer that ſo ſoon is gone,
And weep for winter's too faſt coming on.

M D	☉ rises h	m	☉ ſets h	m
1	6	14	5	46
2	6	16	5	44
3	6	18	5	42
4	6	20	5	40
5	6	22	5	38
F	6	24	5	36
7	6	26	5	34
8	6	28	5	32
9	6	29	5	31
10	6	31	5	29
11	6	33	5	27
12	6	35	5	25
F	6	37	5	23
14	6	39	5	21
15	6	41	5	19
16	6	43	5	17
17	6	45	5	15
18	6	47	5	13
19	6	49	5	11
F	6	51	5	9
21	6	53	5	7
22	6	55	5	5
23	6	56	5	4
24	6	58	5	2
25	7	0	5	0
26	7	2	4	58
F	7	4	4	56
28	7	6	4	54
29	7	8	4	52
30	7	9	4	51
31	7	11	4	49

OBSERVATIONS.

wine. This liquor by degrees becomes leſs ſweet and clearer, and is at laſt matured into wine, which, by diſtillation, affords an inflammable ſpirit. It will alſo, in chryſtillization, ſhoot into ſalts, and yield a great proportion of liquor as ſweet as honey. Beſides the wine itſelf, the fermented juice of grapes affords ices and tartar, which laſt may be analized into five different ſubſtances, all leſs acid than tartar itſelf. Wine likewiſe degenerates into vinegar, from which may be obtained a ſpirit by fire, and a ſalt different from thoſe of tartar. Thus the ſame original matter, a little puddle water, may be changed into almoſt thirty different ſtates in this ſingle plant.

General Properties of material Subſtances.

But naturaliſts ſhew that ſalts, acid, alkaline, volatile, and lixiviate; ſpirits, vinous, urinous, and acid; oils of all kinds; ſulphurs of all kinds, and even mercury, may be produced out of almoſt all kinds of ſubſtances. However, amidſt all this endleſs variety of the properties of matter, it is certain, that all material ſubſtances agree in the general properties of extenſion, gravity, and impenetrability.

And further, if we conſider the whole ſolar ſyſtem, under the head of variety and uniformity, no two planets can therein be

New Moon the 3d day, at 8 at night.
Firſt Quarter the 11th day, at 1 in the morning.
Full Moon the 17th day, at 9 at night.
Laſt Quarter the 25th day, at 3 in the afternoon.

M D	♄ ♉	♃ ♐
1	13	6
6	12	7
11	12	8
16	11	9
21	11	10
26	11	11

M D	W D	Remarkable Days, &c.	☉ ♏	☽ Longitude	☽ riſes and ſets	♂ ♍	♀ ♎	☿ ♏	Mut. Aſpects and Weather
1	F	All Saints	10	12 ♎ 22	4 m 13	15	7	21	
2	S	Pr. Edward b.	11	24 46	5 18	16	8	22	All Souls
3	F	23 S. af. Trin.	12	7 ♏ 24	☽ ſets	16	9	24	Prs. Soph. b.
4	M	K. Wm. land.	13	20 18	5 a 32	17	11	25	[☌ ☉ ♄
5	T	Powder Plot	14	3 ♐ 25	6 8	18	12	27	Wind and
6	W	Leonard	15	16 46	6 50	18	13	28	Mich. Te. b.
7	Γ		16	0 ♑ 17	7 41	19	14	30	rain now
8	F	Prs. Aug. S. b.	17	13 58	8 40	19	16	♐	about, if not
9	S	Ld. Mayor's d.	18	27 46	9 45	20	17	3	
10	F	24 S. af. Trin.	19	11 ♒ 42	10 58	20	18	4	ſome froſts.
11	M	St. Martin	20	25 44	morn	21	19	6	
12	Γ	Ca. T. div. m.	21	9 ♓ 53	0 13	22	20	7	♂ ♃ ☿
13	W	Britius	22	24 7	1 29	22	22	9	
14	T		23	8 ♈ 25	2 48	23	23	10	Some cold
15	F	Machutus	24	22 42	4 5	23	24	12	winds near
16	S		25	6 ♉ 55	5 23	24	25	13	
17	F	25 S. af. Trin.	26	20 58	☽ riſes	24	27	14	Hugh Bp. Li.
18	M		27	4 ♊ 46	5 a 24	25	28	16	this time.
19	T		28	18 15	6 6	26	29	17	
20	W	Edm. K. & M.	29	1 ♋ 22	6 54	26	♏	18	
21	T		♐	14 9	7 46	27	2	20	
22	F	Cecilia	1	26 35	8 44	27	3	21	Old Mart. d.
23	S	St. Clement.	2	8 ♌ 44	9 44	28	4	22	Snow or
24	F	26 S. af. Trin.	3	20 41	10 44	28	5	24	cold rain
25	M	D. Glouc. b.	4	2 ♍ 30	11 46	29	7	25	Catherine
26	T		5	14 18	morn	30	8	26	
27	W		6	26 9	0 50	♎	9	27	towards the
28	T	Mich. T. ends	7	8 ♎ 10	1 54	1	10	28	☿ ♄ ♀
29	F		8	20 24	2 58	1	12	29	end of this
30	S	St. Andrew	9	2 ♏ 56	4 4	2	13	30	month.

Now ſnowy tops the craggy hills diſplay,
And frozen rills their ſtreams unſeen convey;
When rural views no more our eyes delight,
With verdant trees and fields, a vernal ſight;
But ſnow or hoary froſt the ground o'erſpreads,
And icy boughs, o'erladen, hang their heads.

M D	☉ riſes h	m	☉ ſets h	m
1	7	13	4	47
2	7	15	4	45
F	7	17	4	43
4	7	18	4	42
5	7	20	4	40
6	7	22	4	38
7	7	24	4	36
8	7	25	4	35
9	7	27	4	33
F	7	29	4	31
11	7	30	4	30
12	7	32	4	28
13	7	33	4	27
14	7	35	4	25
15	7	37	4	23
16	7	38	4	22
F	7	40	4	20
18	7	41	4	19
19	7	42	4	18
20	7	44	4	16
21	7	45	4	15
22	7	47	4	13
23	7	48	4	12
F	7	49	4	11
25	7	51	4	9
26	7	52	4	8
27	7	53	4	7
28	7	54	4	6
29	7	55	4	5
30	7	56	4	4

OBSERVATIONS.

found, whoſe periods, magnitudes, velocities, diſtances, or planes are the ſame; yet all agree in being nearly of a round figure, and in being carried round their centres of motion, nearly in circles, with velocities in a certain general proportion to their reſpective diſtances.

All Beings of different Syſtems have Sight.

The fixed ſtars are, in all probability, very different from one another in magnitude, in their revolution round their own axis, and other circumſtances; but they all agree in being luminous bodies; and if aſtronomers are right in ſuppoſing them all to be ſuns to different ſyſtems, with their reſpective planetary bodies moving round them, the inhabitants of thoſe planets, however they may differ from one another, may yet be ſuppoſed with probability, all to agree in one circumſtance, of being creatures univerſally endowed with the ſenſe of ſeeing; or to what purpoſe are they furniſhed with ſuch a profuſion of luminaries!

Wiſdom defined and ſhewn.

The proper definition of wiſdom is the chooſing the fitteſt means to accompliſh the greateſt ends. The principal and great end the ſupreme being had in view at his creation of the univerſe, was the happineſs

M D	♄ ♓	♅ ♐
1	10	12
6	10	13
11	10	15
16	9	16
21	9	17
26	9	18

New Moon the 3d day at 11 in the morning.
First Quarter the 10th day, at 8 in the morning.
Full Moon the 17th day, at 11 in the morning.
Last Quarter the 25th day, at 1 in the afternoon.

M D	W D	Remarkable Days, &c.	☉ ♐	☽ Lon-gitude	☽ rises and sets	♂ ♎	♀ ♑	☿ ♏	Mut. Aspects and Weather.
1	F	Advent Sund.	10	15 ♑ 48	5 m 11	2	14	1	Winds, with
2	M		11	29 0	6 22	3	15	2	seasonable
3	T		12	12 ♐ 30	☽ sets	3	17	2	frost.
4	W		13	26 17	5 a 25	4	18	3	☌ ☉ ♅
5	T		14	10 ♒ 15	6 23	5	19	3	
6	F	Nicholas	15	24 21	7 28	5	20	℞	
7	S		16	8 ♓ 30	8 39	6	22	3	
8	B	2 S. in Advent	17	22 42	9 55	6	23	3	Con. V. M.
9	M		18	6 ♈ 49	11 12	7	24	3	Rather more
10	T		19	20 54	morn	7	25	2	
11	W		20	4 ♉ 56	0 28	8	27	2	temperate
12	T		21	18 54	1 42	8	28	1	now about.
13	F	Lucy	22	2 ♊ 47	2 56	9	29	♐	
14	S		23	16 32	4 10	9	♐	28	
15	B	3 S. in Advent	24	0 ♋ 8	5 23	10	2	27	Sleet or
16	M	Cam. T. ends	25	13 32	6 30	11	3	26	O.S. ☌ ☉ ☿
17	T	O. f. T. ends	26	26 41	☽ rises	11	4	24	rain.
18	W	Ember Week	27	9 ♌ 34	5 a 19	12	5	23	
19	T		28	22 11	6 17	12	7	22	
20	F		29	4 ♍ 31	7 16	13	8	21	Cold and
21	S	St. Thomas	♑	16 38	8 18	13	9	20	Shortest day
22	B	4 S. in Advent	1	28 34	9 21	14	10	19	cloudy, with
23	M		2	10 ♎ 23	10 23	14	12	18	
24	T		3	22 10	11 26	15	13	18	☌ ♅ ☿
25	W	Christmas day	4	4 ♏ 2	morn	15	14	17	snow or
26	T	St. Stephen	5	16 2	0 28	16	15	17	✱ ♂ ♀
27	F	St. John	6	28 17	1 33	16	17	D	☌ ♀ ☿
28	S	Innocents	7	10 ♐ 50	2 38	17	18	17	☌ ♅ ♀
29	B	S. aft. Christ.	8	23 46	3 46	17	19	17	rain near the
30	M		9	7 ♑ 6	4 54	18	20	18	end.
31	T	Silvester	10	20 51	6 2	18	22	18	

Now Madam Nature has lain her glory by,
And looks like to a ſtarv'd anatomy.
We're ignorant how we mortal men
May be reſolv'd to elements again;
Thus things revolve, and to their centre tend,
And Almanacks, as well as other things, muſt end.

M D	⊙ riſes h	m	⊙ ſets h	m
F	7	57	4	3
2	7	58	4	2
3	7	59	4	1
4	8	0	4	0
5	8	1	3	59
6	8	2	3	58
7	8	3	3	57
F	8	3	3	57
9	8	4	3	56
10	8	5	3	55
11	8	5	3	55
12	8	6	3	54
13	8	6	3	54
14	8	7	3	53
F	8	7	3	53
16	8	7	3	53
17	8	8	3	52
18	8	8	3	52
19	8	8	3	52
20	8	8	3	52
21	8	8	3	52
F	8	8	3	52
23	8	8	3	52
24	8	8	3	52
25	8	7	3	53
26	8	7	3	53
27	8	7	3	53
28	8	6	3	54
F	8	6	3	54
30	8	6	3	54
31	8	5	3	55

OBSERVATIONS.

of innumerable rational and ſenſative creatures; than which deſign a greater and more important one cannot be imagined. And that the divine wiſdom has choſen, in every inſtance, the very beſt, or rather the only means for anſwering each reſpective end, and likewiſe a variety of ends by one and the ſame ſingle means, is not only demonſtrable *a priori*, from the infinite wiſdom of God admitted, dedücible too, from the works of the whole creation; but is likewiſe to be proved *a poſteriori*, from experience and obſervation of his works, as far as our enquiries are able to go; and the more deeply we ſearch into his admirable works, the more of deep contrivance and deſign we find, and the more of fitneſs in the ſeveral cauſes to produce the intended effects. But the greatneſs of that power and wiſdom, which has been exerted in every object of the creation, will beſt appear by conſidering the GREAT WORKS of the ſun, moon, planets, ſatellites, comets, and fixed ſtars. The largeſt and beſt teleſcopes, and the ſagacity of the ableſt aſtronomers, have furniſhed us with an amazing account of our ſolar ſyſtem, and of the immenſity of creation, which we ſhall enter upon in our next.

SPECULUM ANNI:

OR,

SEASON ON THE SEASONS.

For the YEAR of our LORD, 1793.

THE SECOND PART.

Containing variety of matter in proſe and verſe, part neceſſary to complete a performance of this kind, part collected or compoſed by the author, for the inſtruction and improvement of Britiſh youth, or of thoſe who, in the humble vale of life, have ſouls ſuperior to the opportunities given them, to improve in the various branches of ſcience; and concluding with the kind contributions of his learned and ingenious correſpondents, to whom he once more returns his ſincere thanks for their favours and generous aſſiſtance in a work deſigned at leaſt

" To raiſe the ſoul by tender ſtrokes of art,
" To wake the genius, and to mend the heart;
" To make mankind in Nature's ſtudy bold;—
" Look o'er each ſcene, and mark what they behold."

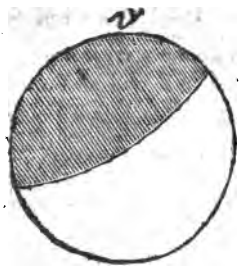
Of the ECLIPSES of the Sun and Moon in this preſent Year, 1793.

IN this year there will happen two eclipſes of the Sun, and two of the Moon; one of each luminary viſible, if the air at that time be clear in England: the other two not.

The firſt is a partial and viſible eclipſe of the moon, on *Monday* the 25th day of *February*, at night. At the time the eclipſe begins, the moon will be vertical, or directly over the heads of ſuch inhabitants as are ſituated near the eaſtern coaſt of Abyſſinia, in Ethiopia, in the African Deſarts, under about 8 degrees of north latitude, and 39 degrees of long tude, eaſt of London; this is the country from whence, it is ſuppoſed, the Queen of Sheba came to hear the wiſdom of Solomon, and from whence the eunuch, the prime miniſter of Queen Candace came, who was converted to Chriſtianity and baptized by St. Phillip.——When the moon is come to the middle of the eclipſe, ſhe will then be vertical to Tamalma, which is near one of the ſources of the River Nile, in Ethiopia, which place is in about 19 degrees of eaſt longitude from London, and under 8 degrees of north latitude. At the end of this eclipſe the moon will be directly over the Gold coaſt, in Guinea; and this happens in near 8 degrees of north latitude, but in 1 deg. 38 min. of weſt longitude from London. This eclipſe will be viſible quite through all Africa and Europe, and the greateſt part of Aſia; in America the moon will riſe eclipſed.

The

The Type.



With reſpect to the meridian of *London*, the eclipſe begins at 24 minutes after nine at night; the middle of the eclipſe will be at 45 min. after 10; and the eclipſe will end at 6 min. after 12; according to appointed time. The duration is 2 hours and 42 min. Digits eclipſed will be 6 on the moon's upper limb. The annexed type is the exact appearance of the eclipſe at the middle.

Note.—V. the moon's upper limb.

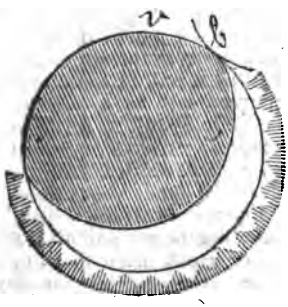
The ſecond is a ſolar defect, and happens on *Tueſday* the 12th day of *March*, at 57 min. after 5 in the morning. This eclipſe is inviſible in theſe parts, but in the remote ſouthern parts of the world, this will be a very great eclipſe; for to thoſe that ſhould happen to be ſailing in the great Eaſtern Ocean, under 46 deg. 30 min. of ſouth latitude, and 98 deg. of longitude, eaſt from London, the ſun will be centrally and totally eclipſed at noon day; but the time of total darkneſs will be very ſhort, for the apparent diameters of the ſun and moon are nearly equal. This eclipſe will be viſible at Botany Bay.

The third is another partical eclipſe of the moon, on *Wedneſday* the 21ſt of *Auguſt*, at 53 min. after 2 in the afternoon. The eclipſe begins at 29 min. after 1; and it will be quite over at 17 min. after 4 o'clock. Digits eclipſed will be 8, and 41 min. on the moon's lower limb. This eclipſe muſt be inviſible in theſe parts, as the moon don't riſe till near 7 o'clock. At the middle time of this eclipſe, the moon will be vertical to Arnheim's land, on the northern coaſt of New Holland, about three hundred miles to the ſouth-weſt of Endeavour Straits. This eclipſe will be viſible to all the unknown ſouthern parts of the world, quite round the Pole, within the compaſs of 11 degrees; alſo to New Zealand, New Holland, and all along the eaſtern coaſt thereof, called New South Wales; New Guinea, the Phillippine Iſles, thoſe of Malacca, Borneo, Sunda, as alſo the New Hebrides, and Friendly Iſles.

The fourth and laſt of theſe eclipſes, is a notable one of the ſun, upon *Thurſday* the 5th day of *September*, in the morning,

viſible to us in Great Britain, if the air prove clear and favourable. This is the greateſt eclipſe we have had in theſe parts, ſince that of the firſt of April, in the year 1764. This eclipſe will be firſt ſeen to begin on the ſun's uppermoſt point, at his riſing that morning, which place will be near the great Fiſhing Bank of Newfoundland; but the central ſhade will firſt take the earth near Hudſon's Straights, in the northern parts of Hudſon's Bay; from this place it directs its courſe ſouth-eaſt, paſſing over the ſouthern parts of Greenland, towards the Weſtern Iſles, leaving Iceland a little to the north; from thence it paſſeth over the northern parts of Scotland, over Denmark, Sweden, and Poland, towards the Caſpian Sea, and the northern parts of Perſia, when it enters the Mogul Empire, and there it quits the earth as the ſun ſets. The apparent diameter of the moon being leſs than the apparent diameter of the ſun, this eclipſe, whoſe central will not be total, but the ſpectators under the central track, will be entertained with a very beautiful ring of light quite round the ſun, of near half a digit in breadth. —The whole penumbra leaves this earth, and the eclipſe will entirely end with the ſetting ſun, which will be in the Indian ſea, near three hundred miles from the ſouthern coaſt of Arabia.

Sun's eclipſe Sept. 5.



The annexed delineation is the appearance of the eclipſe at the greateſt obſcuration at London, and parts adjacent, and will without ſenſible error, ſerve all parts of this kingdom ſouth of the track of annular appearance, the quantity of light only excepted.

The eclipſe will begin at 37 minutes after nine in the morning, at London; the greateſt obſcuration is at 9 minutes after 11; and the eclipſe ends at 44 min. after 12 at noon. App. T.

The whole duration of this eclipſe is 3 hours and 7 minutes. Digits eclipſed at London 9° 28′. See the type.

In the northern parts of Scotland, where this eclipſe is annular, it amounts to 11 digits 34 min. very near; but the dilation of

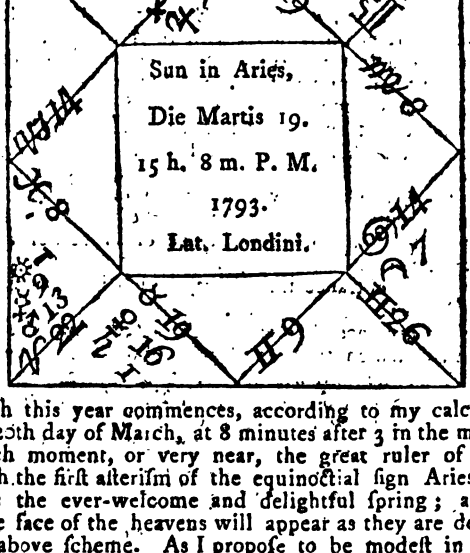
of the annulus, occasioned by the passage of the rays of light through the gross particles of our air will make it appear more than half a digit in breadth.

Explanation of the Type.

Note. B. represents the exact point on the sun's limb, where the eclipse is expected to begin. V. shews the sun's uppermost point.

Judicium Astrologicum pro Anno Redemptionis, 1793.

Of the Vernal Spring Quarter, or the Sun's Ingress into Aries,



Which this year commences, according to my calculations, on the 20th day of March, at 8 minutes after 3 in the morning; at which moment, or very near, the great ruler of the day toucheth the first asterism of the equinoctial sign Aries, which initiates the ever-welcome and delightful spring; at which time the face of the heavens will appear as they are delineated in the above scheme. As I propose to be modest in my predictions, I shall also be somewhat concise according to secondary causes. From this position of the heavens, I have to observe

that religion, right, and property ſeem to be the marks aimed at; but let the agreſſors, in high or low ſtations, take care that they do not extinguiſh their own lamps, by endeavouring to put out others, and create further trouble to themſelves and all aſſiſtants. The ☌ of the two malevolent planets, ♄ and ♂, now approaching, portends great contrariety in mens' judgments and councils; this Conjunction happens in the ſign Taurus, and is accounted the Horoſcope of Ruſſia, Sweden, Poland, and our kingdom of Ireland, therefore theſe places will be eminently concerned in the influence thereof. In ſhort, this is likely to prove a ſummer of wars, troubles, and hoſtilities in ſeveral parts of the continent, in which will be controverted and ſharply diſputed, differences of no ſhort date.

On the ſun's entrance into Cancer, which introduces the Summer Quarter.

Which begins on Friday, June the 21ſt, at 10 minutes after 1 in the morning; at which time we have 16 degrees of ♑ on the 10th houſe, and 9 degrees of ♉ aſcend. In this ſcheme of the heavens, the moon is in the 7th, in ☌ with ♃, ab ☌ of ♄ et ☿; mars and ☿ are in ☌ in the ſecond and ♄ on the laſp of the aſcendant; ſo moves the ſtarry hierarchy. The moon in ☌ to ♄, ſignifies ſome ſaturninal diſeaſes that will affect the heart, brought by troubles and hyſterical caſes, and the hip will be frequent, together with ſome fevers. Divine Providence ſeems to have ordained ſome certain kingdom or kingdoms to great troubles, if not a new modification of their conſtitutions. Time muſt produce the particulars. The affairs of Italy ſeem to be in confuſion; ſome new Prince or Governor appears in thoſe parts; perhaps a new Pope.

On the ſun's entrance into Libra, which introduces the Autumnal Quarter.

Which commences September 22, at 58 min. after 2 in the afternoon, at which time 11 degrees of ♑ aſcend, and 17 degrees of ♍ on the mid heaven. The ☽ is applying to a ☌ of ♄, and □ of ☿ and ♂, and an ☌ of ♃. My judgment of this ſcheme of the heavens is, that we ſhall hear of many raſh actions of the people in ſeveral places, both with reſpect to religion and other affairs. The borders and frontiers of France are yet loaded with martial evils. In the month of September has happened a very notable eclipſe of the ſun, which continued for three hours; now ☿ is the chief ruler of this eclipſe; and it has always been the opinion of the greateſt aſtrologers, that when mercury rules alone, as in this eclipſe, he ſignifieth the quick and crafty actions on the ſtage of the world; excites men

to

to much ſubtilty; the death or miſerable ſtate of ſome Prince, high winds, great robbing, both by ſea and land, together with ſhipwrecks. This eclipſe falls in a ſquare to the horoſcope of Spain; therefore that nation will feel its effects, as will all thoſe places under the ſign Virgo. As many hours as the ſun is eclipſed, ſo many years it is expected the influence will continue to operate.

Of the WINTER QUARTER.

This Quarter begins on Saturday, December the 21ſt, at 29 minutes after 7 in the morning, at which time the ſun enters the firſt ſcruple of the tropical ſign Capricorn, making our ſhorteſt day and longeſt night. Nearly the whole of this Quarter falling after the new Almanacks are come out, I ſhall take no farther notice of it in this place.

A POEM,

Sacred to the memory of the great Sir *Iſaac Newton*.

It was written by Mr. *Thompſon*, the celebrated author of the Seaſons; and as it may be a novelty to the curious reader, I here give it a place.

SHALL the great ſoul of Newton quit this earth,
To mingle with his ſtars, and every muſe,
Aſtoniſh'd into ſilence, ſhun the weight
Of honours due to his illuſtrious name!
But what can man?——Even now the ſons of light,
In ſtrains ſuch as delight the ear of God,
Hail his arrival on the coaſts of bliſs.
Yet am not I deterred, tho' high the theme,
And ſung to harps of angels, far with you,
Æ'therial flames! Ambitious I aſpire
In Nature's general ſymphony to join.
And what new wonders can ye ſhew your gueſt!
Who, while on this dim ſpot where mortals toil,
Clouded in duſt from motion's ſimple laws,
Could trace the boundleſs hand of *Providence*
Wide-working thro' this univerſal frame?
Have ye not liſten'd while he bound the ſuns
And planets to their ſpheres? Th' unequal taſk
Of human kind till then. Oft had they roll'd
O'er erring man the year, and oft diſgrac'd
The pride of ſchools, before their courſe was known,
Full in its cauſes and effects to him,
All-piercing ſage! Who ſat not down and dreamt
Romantic ſchemes, defended by the din
Of ſpecious words, and tyranny of names,
But bidding his amazing mind attend,
And with heroic patience years on years
Deep ſearching, ſaw at laſt the *ſyſtem* dawn,
And ſhine, of all his race, on him alone.
What were his raptures then? how pure! how ſtrong!
And what the triumphs of old Greece and Rome;
By his diminiſh'd, but the pride of boys
In ſome ſmall fray victorious! When, inſtead
Of ſhattered parcels of this earth uſurp'd
By violence unmanly, and ſore deeds
Of cruelty and blood, Nature herſelf

Stood all ſubdued by him, and open laid
Her every latent glory to his view.
And firſt, our ſolar ſyſtem he ſurvey'd
With accurate ken, and by the mingling power
Of gravitation and projection ſaw
The whole in ſilent harmony revolve.
Drawn to his lengthened eye th' attending moons
Deſign'd to cheer remoter planets, were
By him in all their mixt proportions ſeen.
He alſo fix'd the wandering queen of night,
Whether ſhe wanes into a ſcanty orb,
Or waxing broad, with her pale ſhadowy light,
In a ſoft deluge, overflows the ſky.
Her every motion clear diſcerning, he
Adjuſted to the obſequious main, and taught
Why now the mighty maſs of waters ſwells
Reſiſtleſs, heaving on the broken rocks,
And the full river turning; till again
The tide revertive, unattracted, leaves
A yellow waſte of idle ſands behind.
Then breaking hence, he took his ardent flight
Thro' the blue infinite; and every ſtar
Which the clear concave of a winter's night
Pours on the eye, or aſtronomic tube,
Far-ſtretching, ſnatches from the dark abyſs,
Or ſuch as farther in ſucceſſive ſkies
To fancy only ſhine, at his approach
Blaz'd into ſuns. Th'enlivening centre each
Of an harmonious ſyſtem. All combined,
And rul'd unerring by that ſingle power
Which draws the ſtone projected to the ground.
O, unproſuſe magnificence divine!
O, wiſdom, truly perfect! thus to call
From a few cauſes ſuch a ſcheme of things,
Effects ſo various, beautiful and great,
An univerſe complete! And, O belov'd
Of heaven! into *th' Almighty's* councils thus
To be admitted, and allow'd to ſcan
The riſing, moving, wide-eſtabliſh'd frame.
He too, unbaffl'd in his aim, purſu'd
The comet thro' the long elliptic curve,
As round innumerous worlds he wound his way,
Till to the forehead of the evening ſky
Reduc'd, the blazing wonder glares anew.
The heavens are all his own. Finiſh'd by him
The fair diſcovery lies; and ev'ry eye

May lay the uſeleſs teleſcope aſide,
Unleſs it be to hold the great acqueſts
By *Newton* made: Who from the wild domain
Of the * French dreamer reſcu'd heaven and earth.
All Europe ſtood appall'd; but found it vain
To keep at odds with demonſtration ſtrong,
And lingering to reſiſt the awakening force
Of truth. At once their pleaſing viſions fled,
With the gay ſhadows of the morning mix'd,
When *Newton* roſe, our philoſophic ſun.
Th' aerial flow of ſound was known to him,
From whence it firſt in wavy circles breaks,
Till the touch'd organ takes the meſſage in.
Nor could the darting beam, of ſpeed immenſe,
Eſcape his ſwift purſuit, and meaſuring glance.
Even light itſelf, which every thing diſplays,
Shone undiſcover'd, till his brighter mind
Untwiſted all the ſhining robe of day;
And from the whitening, undiſtinguiſh'd blaze,
Collecting every ray into his kind,
To the charm'd eye educ'd the gorgeous train
Of parent-colours. Firſt the flaming red
Sprung vivid forth; the tawny orange next;
And delicious yellow; by whoſe ſide
Fell the kind beams of all-refreſhing green.
Then the pure blue that ſwells autumnal ſkies
Ætherial play'd; and of ſadder hue
Emerg'd the deepen'd Indigo, as when
The heavy-ſkirted evening droops with froſt.
While the laſt gleamings of refracted light
Dy'd in the fainting violet away.
Theſe, when the clouds diſtill the roſy ſhow'r,
Shine out diſtinct adown the watry bow,
While o'er our heads the dewy viſion bends
Delightful, melting on the fields beneath.
Myriads of mingling dies from theſe reſult,
And myriads ſtill remain, th' exhauſtleſs ſource
Of beauty ever flushing, ever new!
Did ever Poet image ought ſo fair,
Dreaming in whiſpering groves, by the hoarſe brook?
Or Prophet, to whoſe rapture heaven deſcends!
Even now the ſetting ſun and liveri'd clouds,
Seen, *Greenwich*, from thy lovely heights, declare
How juſt, how beauteous the refractive law.

* Des Cartes.

The

The noiſeleſs tide of time, all bearing down
To vaſt eternity's unbounded ſea,
Where the green iſlands of the happy ſhine,
He backward ſtem'd alone; and to its ſource
Aſcending, mark'd its periods, and hung out
His lights at equal diſtances to guide
Hiſtorian, wilder'd on his darkſome way.
But who can number up his labours? Who
His high diſcoveries ſing? When but a few
Of the deep ſtudying race can ſtretch their minds
To image what he knew, as clear as they
The truths ſelf-evident with which he link'd
His fartheſt views. For is there aught that's great,
That's wonderful, and hard, deterring ſearch?—
That was his prize! and worthy of his toil
Unfailing, who the lonely monarch reign'd
Of ſcience thin inhabited below.
What wonder, then, that his devotion ſwell'd
Reſponſive to his knowledge! For could he,
Whoſe piercing mental eye diffuſive ſaw
The finiſh'd univerſity of things,
In all its order, magnitude, and parts,
Forbear inceſſant to adore that *power*
Who fills, ſuſtains, and actuates the whole.
Say, ye who beſt can tell, ye happy few,
Who ſaw him in the ſofteſt lights of life,
All unwithheld, indulging to his friends
The vaſt, unborrowed treaſures of his mind,
O ſpeak, the wond'rous man! how mild, how calm,
How greatly humble, how divinely good,
How firm, eſtabliſh'd on eternal truth,
Pure as his faith, and active as his love,
Fervent in doing well, with every nerve
Still preſſing on, forgetful of the paſt,
And panting for perfection! far above
Thoſe little cares, and viſionary joys,
That ſo befool the fond, impaſſion'd heart,
Of ever-cheated, ever-truſting man.
And ſay, ye downward, gloomy-minded tribe,
Ye, who, unconſcious of thoſe nobler flights
That reach impatient at immortal life,
Againſt the prime, endearing privilege
Of being, dare contend; ſay, can a ſoul
Of ſuch extenſive, deep, tremendous powers,
Enlarging ſtill, be but a finer breath
Of ſpirits dancing thro' their tubes awhile,

And

And then for ever loſt in vacant air?
But hark! methinks I hear a warning voice,
Solemn as when ſome awful change is come,
Sound thro' the world—"*He's dead!—The meaſure's full,*
"*And I reſign my charge*"——Ye mouldering ſtones
That build the tow'ring pyramid, the proud
Triumphal arch, the monument effac'd
By ruthleſs ruin, and whate'er ſupports
The wotſhipp'd name of grey antiquity,
Down to the duſt! What grandeur can ye boaſt,
While *Newton* lifts his column to the ſkies,
Beyond the waſte of time!—Let no weak drop
Be ſhed for him. The beauty in her bloom
Cut off, the joyous youth, and darling child,
Theſe are the tombs that claim the tender tear,
And elegiac ſong. But *Newton* calls
For other notes of gratulation high,
That now he wanders thro' thoſe endleſs worlds
He here ſo well deſcry'd, and wondering talks,
And hymns their author with his glad compeers.
O, Britain's boaſt! Whether with angels thou
Sitteſt in dread diſcourſe, or fellow-ſaints,
Who joy to ſee the honour of their kind,
Or whether mounted on cherubic wing,
Thy ſwift career is with the whirling ſpheres,
Comparing things with things, in rapture loſt,
And lowly adoration for that light
So plenteous ray'd into thy mind below,
From *light himſelf*, O, look with pity down
On human kind, a frail, erroneous race!
Aſſuage the madneſs of a jarring world!
But chiefly o'er thy country's cauſe preſide,
And be her genius called! Her councils ſteer,
Correct her manners, and inſpire her youth!
For, guilty as ſhe is, ſhe brought Thee forth,
And glories in thy name; ſhe points thee out
To all her ſons, and bids them eye thy ſtar:
While in expectance of th' arouſing blaſt,
When time ſhall be no more, thy ſacred duſt
Sleeps with her kings, and dignifies the ſcene.

*** Sir Iſaac Newton died March 20, 1727, aged 84 years.

The

The anſwers to the ENIGMAS, CHARADES, &c. &c. in our laſt are as follow:

Enigma 1. A clock.
2. A tongue.
3. Parchment.
4. A ſecret.
5. A mile-ſtone.
Rebus 1. A fiddle.
Rebus 2. A cuckold.
Charade 1 & 2. Warwick and Newton.
3. Ale-houſe.
4. Carpet.
5. Sunday.

A general anſwer to all the Enigmas, &c. by Mr. T. Gell.

The *Tongue* the *Secrets* may unlock, 2, 4,
Of *Mile ſtone*, *Parchment*, or a *Clock*; 5, 3, 1, } Enigma.
A *Cuckold* may with *Violin* ſing, 1, 2 Rebus.
Of *Warwick*, *Newton*, or a King; 1, 2,
Ale-houſe and *Carpet* next appear, 3, 4, } Charade.
And *Sunday* we ſhould all revere. 5,

Anſwer to the Enigmas in an Elegy on a deceaſed Friend, by Mr. John Hughes.

*Lam*bert is gone! the virtuous and the wiſe,
With looks dejected, I beheld his bier;
Awhile ye ſympathiſing! breathe your ſighs,
And ſhed the tender tribute of a tear.

II.

Thro' the deep covert of the mournful glade,
Ye murm'ring rills in ſoft meanders flow:
Ye fragrant zephyrs o'er the ſilent ſhade,
On downy pinions waft the tale of woe.

III.

Ye learned bards! ye virtuous, and ye wiſe,
Follow the paths in which young Lambert trod,
Like him, with pleaſure ſeek exalted joys,
And guide your feet through virtue's paths to God.

IV.

Like him, each moment *watch*, in *ſecret* praiſe,
Adore the God who gave you vital breath,
Or with your *tongue* a glorious tribute raiſe,
And aſk protection from eternal death.

Note. The ſolutions to the enigmas which I have mentioned in the foregoing elegy, are a *clock*, or watch, *tongue*, *ſecret*, lamb,

lamb, or *parchment*, and the laſt, which I have not mentioned, is a mile-ſtone.

True anſwers have been ſent to the enigmas, &c. by Mr. Rd. A—, Mr. Thos. Davis, and Mr. John Ward.

Quere I. anſwered by Mr. John Ward, of Hinckley.

"We cannot come to any certainty, as no ſatisfactory light "can be given concerning who the wiſe men were." Vide *Ancient* part of Univerſal Hiſtory, 3d vol. p. 191.

Quere II. anſwered by Mr. T. Gell.

The Primitive Chriſtians placed a croſs at the beginning of the Engliſh alphabet, to remind the teacher, that the firſt leſſon which they taught children ſhould be, that Chriſt ſuffered death upon the Croſs for their redemption, &c. hence called Croſs-row.

This was alſo anſwered by Mr. John Hughes and Mr. Ward.

Quere III. anſwered by Mr. John Ward.

"Free-maſons, as to antiquity, lay claim to a ſtanding of ſome thouſand years; and, it is ſaid, can trace up their original as early as the building of Solomon's Temple. It is very doubtful when they were firſt introduced into this country: Some have traced the origin of them in general to the year 674, when glaſs-making was introduced: and it is certain, that after this time, many of our public buildings in the Gothic ſtyle were erected by men in companies, who, as ſome ſay, called themſelves *free*, becauſe they were at liberty to work in any part of the kingdom.—Others have derived the inſtitution from a combination amongſt them not to work without an advance of wages, when they were ſummoned from ſeveral counties, by writs of Edward III. directed to the Sheriffs, to aſſiſt in rebuilding and enlarging the caſtle, together with the church and chapel of St. George, at Windſor: accordingly it is ſaid, that they agreed on tokens, &c. by which they might know and aſſiſt one another againſt being impreſſed, and not to work unleſs free, and on their own terms." Vide Chambers's Dictionary.

Quere IV. anſwered by Mr. Ward.

"In the year 1465, Edward IV. then king of England, having received ſome favours from the king of Spain, and willing to return the kindneſs, very imprudently ſent him a preſent of ſome fine Engliſh ſheep; theſe firſt cauſed the fine breed of ſheep there, which have been ſince ſo famous, and alſo the decay of the

the woollen manufacture here in England, the demand for exportation being considerably lessened; to recover which, Queen Elizabeth ordered the Lord Chancellor and Judges to sit upon wool, in the Parliament-house, in order to remind them of the decay in that branch of business, and (wool being a staple commodity in this kingdom) of the necessity of using the utmost vigilence to recover and maintain it."

Query V. answered by Mr. Tho. Gell.

The invention of bells is attributed to the Egyptians, who always used them to announce the festivals in honour of Osiris. —Amongst the Hebrews, the High Priest in grand ceremonies wore a kind of tunic, ornamented with golden bells. Pope Sabinian and St. Paulin of Nola introduced them into the church, to call the faithful to divine worship, and to distinguish the canonical hours: but it does not appear that large bells were used before the sixth century. In 610, the army of Clotaire, which were besieging Sens, were so frightened by the noise of the bells of the church of St. Stephen, which Loup, Bishop of Orleans, ordered to be rung, that they raised the siege, and betook themselves to flight. This caused the people to have such a veneration for bells, and believe there was something so formidable in their sound, that the Bishop ordered them to be rung when the souls of the righteous were just departing; from hence (perhaps) called the "Passing-bell."

Mr. Ward says, the origin of the passing-bell is a very ancient practice; before the reformation it was evidently intended to give notice to the living, of the departure of a fellow-creature, that they might unanimously offer up a prayer for his salvation. Vide Carleton-house Mag. No. III. p. 113.

Quère VI. answered by Mr. John Hughes.

Minerva was the tutelar goddess of the city of Athens, whence she is called Ἀθηνη, by Demosthenes, Homer, and other Grecian writers; and, as she presided over the liberal arts, she chose the owl to be her emblem, on account of its grave look, and as it was a lover of solitude. Athens was then the seat of learning in the east, and all people of a sagacious deportment were said to be fit to be seen at Athens; and as most learned people love solitude, they seem to bear a strict similitude to owls; hence arose the expression, "Owls to Athens."

New

New QUERIES propoſed for the Year 1793.

Firſt Quere by Mr. John Ward, of Hinckley.

Why ſhould preſents be made on the 1ſt day of January, more than at other times?

Second Quere by Hoity-toity.

When, by whom, and on what occaſion was the Stocking-frame invented.

Third Quere by Mr. Thomas Gell, of Mettle-hall.

Which of all the ſciences are the moſt uſeful to man?

Fourth Quere by the ſame.

Who was the firſt Chriſtian King in Britain.

New ENIGMAS, &c. for the Year 1793.

Firſt Enigma, by Sator.

Seaſonian bards, grant me excuſe,
While I a friend here introduce,
Who unto all aſſiſtance lends,
And rich and poor alike befriends.
Of pigmy ſize I do appear,
And human features ſometimes wear;
A ſtation'd friend to keep ſecure,
What ſome aver both good and pure.
And, as a proof of high reſpect,
With ſilver oft I'm richly deck'd;
And joined by a cheerful friend,
On kings and nobles we attend.
Devoid of care, and free from ſtrife,
I ſometimes lead a happy life.
And deck'd with plumes both gay and fair,
I wanton in the noontide air;
Or, like the ſilver ſwan that ſcuds
Along the ſurface of the floods,
When Sol refulgent darts his beams,
I ſport upon the cryſtal ſtreams.

Second

Second Enigma by Mr. Tho. Gell, of Mettle-hall.

Ye Britiſh bards, of laſting fame,
Attend awhile to this my theme,
Which I'll reveal to you;
My dreſs and uſe are manifold,
I'm clad in red with ſpangl'd gold,
Sometimes in ebon hue;
Both lords and kings, and princes too,
With me ſubmiſſive lowly bow,
Of me they much approve;
The laws of Hymen I make known,
When virgins ſtand before his throne,
To tie the knot of love;
In mourning ſometimes I'm clad,
Attend vain mortals when they're dead,
Unto their reſting place;
Then happy if prepar'd by me,
To meet their judge moſt glorioufly,
And find a world of peace.

Third Enigma by Mr. G. Sim—n, of Thingdon.

I'm a perplexing pleaſing toy,
A ſolid bubble, and airy joy,
A ſweet deluder, a welcome thief,
Am ages comfort, and youth's relief.

Firſt Charade by Mr. John Ward, of Hinckley.

My ſecond, O Delia! lovely fair,
Adds grace to thy bewitching, pleaſing air;
My firſt a famous orator of renown,
Who in Britain's Parliament is known;
The whole a hardy plant, of which beware,
And from whoſe noxious qualities take care.

Second Charade by Mr. Rd. A. of Newbury.

My firſt's a term that doth imply the ground,
My ſecond worth two nobles will be found;
Now pray attend to what the Scriptures ſay,
"Curſed is he that takes my whole away."

Third

Third Charade by Mr. G. Sim—n.

With Jacob's race my firſt was ſeen,
When down to Egypt they had been:
My ſecond doth my firſt produce,
Ere it is uſhered into uſe,
Read Holy Writ, and there you'll ſee
That pious men made uſe of me.

*** The Editor once more preſents his thanks to all his kind contributors, and begs they will ſend their letters, as uſual, by the firſt of May.——Mr. Davis's, and Mr. Tong's letters are received. What uſeful matter we reſerve, ſhall appear another time.

FINIS.

Ὀλύμπια Δώματα·

OR, AN

ALMANACK

For the YEAR of

Our LORD GOD, 1793;

Being the First after

BISSEXTILE, or LEAP-YEAR,

And from the World's Creation, 5797.

Wherein are Contained the Lunations, Conjunctions, Aſpects, and Effects of the Planets; the Increaſe, Decreaſe, and Length of the Days and Nights; with the Riſing, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are ſeen.

Calculated according to Art, and referred to the Horizon of the ancient and renowned Borough Town of *Stamford* (formerly a famous Univerſity) whoſe Latitude is 52 Deg. 20 Min. fitting all the middle Counties of *ENGLAND*, and, without ſenſible Error, the whole Kingdom.

Non eſt è Terris mollis ad Aſtra Via.

By TYCHO WING, *Philom.*

LONDON:

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And ſold by ROBERT HORSFIELD, at their Hall, in Ludgate-Street.

[Price, ſtitched, TEN-PENCE.]

Common NOTES and Moveable FEASTS.

Dominical Letter	F	Septuagesima Sund.	Jan. 27
Golden Number	8	Shrove Sunday	Feb. 10
Epact	17	Easter Day	Mar. 31
Cycle of the Sun	10	Whit-Sunday	May 19
Roman Indiction	11	Trinity Sunday	May 26
Number of Direction	10	Advent Sunday	Dec. 1

A CATALOGUE of the Moſt Reverend, Right Reverend, and Reverend, the Archbiſhops, Biſhops, and Deans, exerciſing Eccleſiaſtical Juriſdiction in England, 1793.

Archbiſhops.	*Deans Names.*	*Sees Names.*
Dr. John Moore	Biſhop Buller	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
Biſhops.		
Dr. Beilby Porteus	Biſhop Pretyman	London
Hon. Dr. S. Barrington	Bp. Hinchcliffe	Durham
Hon. Dr. Br. North	Dr. Newton Ogle	Winchester
Sir Wm. Aſhburnham	Mr. Combe Miller	Chicheſter
Dr. Charles Moſs	Lord Fran. Seymour	Bath & Wells
Dr. John Hinchcliffe	Dr. Peter Peckard	Peterborough
Hon. Dr. James Yorke	Dr. William Cooke	Ely
Dr. John Thomas	Dr. Thomas Dampier	Rocheſter
Dr. Richard Hurd	Hon. St. And. St. John	Worceſter
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Dr. John Warren	Dr. Thomas Lloyd	Bangor
Hon. Dr. Js Cornwallis	Dr. Baptiſt Proby	Litchf. & Cov.
Dr. Lewis Bagot	Dr. W. D. Shipley	St. Aſaph
Dr. Richard Watſon	Dr. Rob. Price, Prec.	Landaff
Dr. Edward Smalwell	Dr. Cyril Jackſon	Oxford
Dr. Geo. Pretyman	Dr. Sir Rich. Kaye, Bt.	Lincoln
Dr. John Douglas	Dr. John Ekins	Saliſbury
Dr. William Cleaver	Dr. George Cotton	Cheſter
Dr. Samuel Horſley	Mr. Wollaſton, Prec.	St. David's
Dr. Richard Beadon	Dr. Joſiah Tucker	Glouceſter
Dr. E. V. Vernon	Dr. Iſaac Milner	Carliſle
Dr. Char. M. Sutton	Dr. Joſeph Turner	Norwich
Dr. Spencer Madan	Dr. John Hallam	Briſtol
Dr. Wm. Buller	Dr. Charles Harward	Exeter
	Biſhop Thomas	Weſtminſter
	Biſhop Cornwallis	Windſor
Mr. Claudius Crigan		Sodor & Man

A TABLE of TERMS and Returns for the Year 1793.

HILARY Term begins January 23, ends February 12.

Returns or Eſſoign Days.	Exc.	Ret.	App.	W. D.
In eight Days of St. Hilary - - Jan. 20	21	22	23	Wedneſ
In fifteen Days of St. Hilary - - 27	28	29	30	Wedneſ
On the Mor. of the Purif. of the Bl. V. M. Feb. 3	4	5	6	Wedneſ
In eight Days of the Purif. of the Bl. V. M. 9	10	11	12	Tueſd.

EASTER Term begins April 17, ends May 13.

In fifteen Days of Eaſter - - April 14	15	16	17	Wedn.
From Eaſter Day in three Weeks - 21	22	23	24	Wedn.
From Eaſter Day in one Month - 28	29	30	M. 1	Wedn.
From Eaſter Day in five Weeks - May 5	6	7	8	Wedn.
On the Mor. of the Aſcenſion of the Lord 10	11	12	13	Mond.

TRINITY Term begins May 31, ends June 19.

On the Morrow of the Holy Trinity May 27	28	29	31	Friday
In eight Days of the Holy Trinity - June 2	3	4	5	Wedn.
In fifteen Days of the Holy Trinity - 9	10	11	12	Wedn.
From the Day of the Holy Trinity in 3 Weeks 16	17	18	19	Wedn.

MICHAELMAS Term begins November 6, ends November 28.

On the Morrow of All Souls - Nov. 3	4	5	6	Wedn.
On the Morrow of St. Martin - 12	13	14	15	Friday
In eight Days of St. Martin - - 18	19	20	21	Thurſ.
In fifteen Days of St. Martin - - 25	26	27	28	Thurſ.

N. B. No Sittings in Weſtminſter-Hall on the Second of February, Aſcenſion-day, and Midſummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, The firſt and laſt Days of every Term, are the firſt and laſt Days of Appearance.

The Names of the Learned JUDGES in the Law.

I. Commiſſioners of the Great Seal.

Sir James Eyre, Sir William Henry Aſhhurſt, Sir John Wilſon.

Right Hon. Sir Richard Pepper Arden, Knt. Maſter of the Rolls.

II. In the K. Bench. { Rt. Hon. Lord Kenyon, Lord Chief J. / Sir Wm. Henry Aſhhurſt, Knt. } Sir Naſh Groſe, Knt. / Sir Fran. Buller, Bart.

III. In the Co. Pleas. { Rt. Hon. Al. Ld. Loughborough, L. C. J. / John Heath, Eſq. } Sir H. Gould, Knt. / Sir John Wilſon, Kt.

IV. In the Exchequer. { Sir James Eyre, Knt. L. C. B. / Sir Beaumont Hotham, Knt. } Sir Alex. Thompſon, Kt. / Sir Rich. Perryn, Kt.

Sir Arch. M'Donald, Knt. Att. Gen. Sir John Scott, Knt. Sol. Gen.

The REGAL Table.

The Year, Month, and Day, when each King and Queen began to reign; accounting the Year to begin *January* 1.			Length of each Reign.			Number of Years expired since their Reigns ended.	
Kings Names	began to reign		Y.	M.	D.	end	Kings Names
William I.	1066	Oct. 14	20	10	26	406	William 1
William II.	1087	Sept. 9	12	10	24	693	William 2
Henry I.	1100	Aug. 2	35	3	29	658	Henry 1
Stephen	1135	Dec. 1	18	10	24	639	Stephen
Henry II.	1154	Oct. 25	34	8	11	604	Henry 2
Richard I.	1189	July 6	9	9	0	594	Richard 1
John	1199	April 6	17	6	13	577	John
Henry III.	1216	Oct. 19	56	0	28	521	Henry 3
Edward I.	1272	Nov. 16	34	7	21	486	Edward 1
Edward II.	1307	July 7	19	6	18	466	Edward 2
Edward III.	1327	Jan. 25	50	4	27	416	Edward 3
Richard II.	1377	June 21	22	3	8	394	Richard 2
Henry IV.	1399	Sept. 29	13	5	20	380	Henry 4
Henry V.	1413	Mar. 20	9	5	11	371	Henry 5
Henry VI.	1422	Aug. 31	38	6	4	332	Henry 6
Edward IV.	1461	Mar. 4	22	1	5	310	Edward 4
Edward V.	1483	April 9	0	2	13	310	Edward 5
Richard III.	1483	June 22	2	2	0	308	Richard 3
Henry VII.	1485	Aug. 22	23	8	0	284	Henry 7
Henry VIII.	1509	April 22	37	9	6	246	Henry 8
Edward VI.	1547	Jan. 28	6	5	8	240	Edward 6
Q. Mary I.	1553	July 6	5	4	11	235	Q. Mary
Q. Elizabeth	1558	Nov. 17	44	4	7	190	Q. Elizabeth
James I.	1603	Mar. 24	22	0	3	168	James 1
Charles I.	1625	Mar. 27	23	10	3	144	Charles 1
Charles II.	1649	Jan. 30	36	0	7	108	Charles 2
James II.	1685	Feb. 6	4	0	7	104	James 2
Will. 3. & M.	1689	Feb. 13	13	0	23	91	William 3
Q. Anne	1702	Mar. 8	12	4	24	79	Q. Anne
George I.	1714	Aug. 1	12	10	10	66	K. George 1
George II.	1727	June 11	33	4	14	33	K. George 2
George III.	1760	Oct. 25	Crowned Sept. 22, 1761.				

The Uſe of the following TABLE *of the Moon's Southing, t find the Time of High-Water, and the Hour of the Night.*

I. To find the Time of High-Water in moſt Parts of ENGLAND.

Take the Time of the Moon's Southing for the Day propoſed, and to that add the Hours and Minutes which ſtand againſt the Place required in the following Table of Sea-Coaſts, and the Sum will be the Time of High-Water at the Place required on that Day.

A Table of the Sea Coaſts.	H.	M.
Portſmouth, Queenborough, Southampton,	0	00
Rocheſter, Winchelſea, Fluſhing,	0	45
Downs, Graveſend, Ramkins, Guernſey,	1	30
Denbeigh, Bell-Iſle, Holy-Iſle, Downs-Road,	2	15
London, Tinmouth, Whitby, Hartlepool,	3	00
Scarborough, Berwick, Fluſhing, Staples,	3	45
Flamborough, Humber, Bridlington-Bay,	4	30
Plymouth, Ramſay, Newcaſtle, Severn,	5	15
Lynn, Foſdyke, Hull, Weymouth, Dartmouth, Croſs-Keys,	6	00
Boſton, Start-Point, Foulneſs, Briſtol-Key,	6	45
Bridgewater, Milford Haven, Lizard, Wintertown,	7	30
Yarmouth, Iſle of Wight, the Needles,	8	15
Iſle of Man, Orkney, Pool, South-Foreland,	9	10
Dover, Harwich, Orfordneſs, Bullein,	10	10
Rye, Solebay, Margate-Road,	11	15

II. To find the Hour of the Night by the Shadow of the Moon on a Sun-Dial.

1. When the Shadow falls preciſely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table is the exact Time of Night. But in other Caſes,

2. If the Shadow wants of 12, ſee how much it wants of it; which Time, ſubtracted from that of the Moon's Southing, leaves the Time of Night. *Note*, You muſt add 12 Hours to the Moon's Southing, if Need be.

3. If the Shadow has paſt 12, add the Time that it has paſt it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from that Sum, if Need be.

A TABLE of the MOON's SOUTHING, of excellent Use to

M D	January h m	February h m	March h m	April h m	May h m	June h m	M D
1	2 m 46	3 m 30	2 m 15	3 m 37	4 m 27	6 m 6	1
2	3 30	4 16	3 0	4 32	5 25	6 56	2
3	4 13	5 2	3 49	5 29	6 21	7 46	3
4	4 56	5 51	4 40	6 26	7 15	8 36	4
5	5 41	6 43	5 33	7 23	8 8	9 25	5
6	6 27	7 38	6 29	8 19	9 0	10 15	6
7	7 15	8 36	7 27	9 15	9 51	11 5	7
8	8 7	9 36	8 25	10 9	10 42	11 55	8
9	9 3	10 37	9 23	11 2	11 32	0 a 46	9
10	10 2	11 39	10 22	11 54	0 a 23	1 35	10
11	11 3	0 a 37	11 19	0 a 47	1 15	2 23	11
12	0 a 5	1 33	0 a 15	1 39	2 6	3 10	12
13	1 6	2 26	1 8	2 30	2 56	3 56	13
14	2 4	3 18	2 1	3 21	3 45	4 40	14
15	2 59	4 8	2 52	4 12	4 33	5 23	15
16	3 52	4 57	3 43	5 1	5 19	6 5	16
17	4 42	5 46	4 33	5 49	6 4	6 48	17
18	5 30	6 35	5 23	6 36	6 48	7 33	18
19	6 18	7 24	6 12	7 22	7 31	8 20	19
20	7 6	8 12	7 0	8 7	8 15	9 10	20
21	7 53	8 59	7 47	8 51	9 0	10 3	21
22	8 41	9 46	8 34	9 35	9 47	11 0	22
23	9 29	10 32	9 20	10 20	10 37	11 59	23
24	10 17	11 17	10 5	11 7	11 28	morn	24
25	11 4	morn	10 49	11 55	morn	1 0	25
26	11 50	0 1	11 33	morn	0 23	2 0	26
27	morn	0 45	morn	0 45	1 20	2 58	27
28	0 35	1 30	0 19	1 38	2 19	3 54	28
29	1 20		1 6	2 33	3 18	4 47	29
30	2 3		1 54	3 30	4 16	5 39	30
31	2 46		2 44		5 12		31

Spring Quarter begins	-	March	20d	3h 8m	morning.
Summer Quarter begins	-	June	21	1 10	morning.
Autumn Quarter begins	-	Sept.	22	2 58	afternoon.
Winter Quarter begins	-	Dec.	21	7 29	morning.

find the Time of High-Water, and the Hour of the Night.

M D	July h m	Auguſt h m	September h m	October h m	November h m	December h m	M D
1	6 m 28	7 m 41	8 m 59	9 m 24	10 m 19	10 m 23	1
2	7 17	8 31	9 47	10 9	11 3	11 14	2
3	8 7	9 20	10 32	10 51	11 49	o a. 5	3
4	8 56	10 9	11 17	11 35	o a 37	1 o	4
5	9 45	10 56	o a 1	o a 19	1 28	1 58	5
6	10 35	11 43	o 44	1 4	2 21	2 55	6
7	11 25	o a 28	1 28	1 50	3 16	3 52	7
8	o a 15	1 13	2 11	2 39	4 12	4 47	8
9	1 o	1 56	2 56	3 30	5 8	5 40	9
10	1 46	2 39	3 43	4 23	6 4	6 31	10
11	2 31	3 21	4 32	5 17	6 58	7 21	11
12	3 14	4 5	5 24	6 13	7 51	8 11	12
13	3 57	4 51	6 18	7 10	8 43	9 2	13
14	4 40	5 39	7 16	8 7	9 35	9 53	14
15	5 23	6 30	8 15	9 2	10 27	10 45	15
16	6 8	7 24	9 13	9 57	11 19	11 37	16
17	6 55	8 21	10 11	10 52	morn	morn	17
18	7 46	9 21	11 9	11 46	o 12	o 29	18
19	8 40	10 22	morn	morn	1 6	1 20	19
20	9 37	11 22	o 5	o 40	1 59	2 10	20
21	10 37	morn	1 o	1 33	2 51	2 57	21
22	11 38	o 21	1 54	2 27	3 41	3 43	22
23	morn	1 18	2 48	3 20	4 30	4 27	23
24	o 39	2 13	3 41	4 12	5 16	5 9	24
25	1 38	3 6	4 33	5 3	6 o	5 51	25
26	2 35	3 58	5 25	5 53	6 43	6 33	26
27	3 29	4 50	6 15	6 40	7 26	7 16	27
28	4 21	5 41	7 4	7 25	8 9	8 1	28
29	5 11	6 32	7 52	8 9	8 52	8 48	29
30	6 1	7 22	8 39	8 53	9 37	9 39	30
31	6 51	8 11	.	9 36		10 33	31

VENUS is an Evening Star till May 27, and then a Morning Star for the reſt of the Year.

JUPITER is a Morning Star till May 17, then an Evening Star till December 4, and then a Morning Star for the reſt of the year.

A TABLE of the MOON's SOUTHING, of excellent Use to

M D	January h m	February h m	March h m	April h m	May h m	June h m	M D
1	2 m 46	3 m 30	2 m 15	3 m 37	4 m 27	6 m 6	1
2	3 30	4 16	3 c	4 32	5 25	6 56	2
3	4 13	5 2	3 49	5 29	6 21	7 46	3
4	4 50	5 51	4 40	6 26	7 15	8 36	4
5	5 41	6 43	5 33	7 23	8 8	9 25	5
6	6 27	7 38	6 28	8 1	9 c	10 15	6
7	7 15	8 36	7 27	9 15	9 51	11 5	7
8	8 7	9 36	8 25	10 9	10 42	11 55	8
9	9 3	10 37	9 23	11 2	11 32	o a 46	9
10	10 2	11 39	10 22	11 54	o a 23	1 35	10
11	11 3	o a 37	11 19	o a 47	1 15	2 23	11
12	o a 5	1 33	o a 15	1 39	2 6	3 10	12
13	1 6	2 26	1 8	2 30	2 56	3 56	13
14	2 4	3 18	2 1	3 21	3 45	4 40	14
15	2 59	4 8	2 52	4 12	4 33	5 23	15
16	3 52	4 57	3 43	5 1	5 19	6 5	16
17	4 42	5 46	4 33	5 49	6 4	6 48	17
18	5 30	6 35	5 23	6 36	6 48	7 33	18
19	6 18	7 24	6 12	7 22	7 31	8 20	19
20	7 6	8 12	7 0	8 7	8 15	9 10	20
21	7 53	8 59	7 47	8 51	9 0	10 3	21
22	8 41	9 46	8 34	9 35	9 47	11 0	22
23	9 28	10 32	9 20	10 20	10 37	11 59	23
24	10 17	11 17	10 5	11 7	11 28	morn	24
25	11 4	morn	10 49	11 55	morn	1 0	25
26	11 50	o 1	11 33	morn	o 23	2 0	26
27	morn	o 45	morn	o 45	1 20	2 58	27
28	o 37	1 30	o 19	1 38	2 19	3 54	28
29	1 20		1 6	2 33	3 18	4 47	29
30	2 3		1 54	3 30	4 16	5 39	30
31	2 46		2 44		5 12		31

Spring Quarter begins - March 20d 3h 8m morning.
Summer Quarter begins - June 21 1 10 morning.
Autumn Quarter begins - Sept. 22 2 58 afternoon.
Winter Quarter begins - Dec. 21 7 29 morning.

find the Time of High-Water, and the Hour of the Night.

M D	July h m	Auguſt h m	September h m	October h m	November h m	December h m	M D
1	6 m 28	7 m 41	8 m 59	9 m 24	10 m 19	10 m 23	1
2	7 17	8 31	9 47	10 9	11 3	11 14	2
3	8 7	9 20	10 32	10 51	11 49	o a. 5	3
4	8 56	10 9	11 17	11 35	o a 37	1 o	4
5	9 45	10 56	o a 1	o a 19	1 28	1 58	5
6	10 35	11 43	o 44	1 4	2 21	2 55	6
7	11 25	o a 28	1 28	1 50	3 16	3 52	7
8	o a 13	1 13	2 11	2 39	4 12	4 47	8
9	1 o	1 56	2 56	3 30	5 8	5 40	9
10	1 46	2 39	3 43	4 23	6 4	6 31	10
11	2 31	3 21	4 32	5 17	6 58	7 21	11
12	3 14	4 5	5 24	6 13	7 51	8 11	12
13	3 57	4 51	6 18	7 10	8 43	9 2	13
14	4 40	5 39	7 16	8 7	9 35	9 53	14
15	5 23	6 30	8 15	9 2	10 27	10 45	15
16	6 8	7 24	9 13	9 57	11 19	11 37	16
17	6 55	8 21	10 11	10 52	morn	morn	17
18	7 46	9 21	11 9	11 46	o 12	o 29	18
19	8 40	10 22	morn	morn	1 6	1 20	19
20	9 37	11 22	o 5	o 40	1 59	2 10	20
21	10 37	morn	1 o	1 33	2 51	2 57	21
22	11 38	o 21	1 54	2 27	3 41	3 43	22
23	morn	1 18	2 48	3 20	4 30	4 27	23
24	o 39	2 13	3 41	4 12	5 16	5 9	24
25	1 38	3 6	4 33	5 3	6 o	5 51	25
26	2 35	3 58	5 25	5 53	6 43	6 33	26
27	3 29	4 50	6 15	6 40	7 26	7 16	27
28	4 21	5 41	7 4	7 25	8 9	8 1	28
29	5 11	6 32	7 52	8 9	8 52	8 48	29
30	6 1	7 22	8 39	8 53	9 37	9 39	30
31	6 51	8 11		9 36		10 33	31

VENUS is an Evening Star till May 27, and then a Morning Star for the reſt of the Year.

JUPITER is a Morning Star till May 17, then an Evening Star till December 4, and then a Morning Star for the reſt of the year.

Lunations.			
Last Quarter	5th day, at	1	afternoon
New Moon	12th day, at	9	morning
First Quarter	19th day, at	2	morning
Full Moon	27th day, at	5	morning

M D	Jupiter rises	Venus sets
1	4 m 11	6 a 37
7	3 50	6 38
13	3 29	6 40
19	3 9	6 41
25	2 49	6 41

M D	W D	Holy Days, ☉ rises & sets	☽'s Longit.	☽'s Declin.	☽ rises & sets	Aspects and Weather
1	Tu	**Circumcision**	26 ♌ 43	10 n 58	8 a 30	☌ ☉ ☿
2	W		8 ♍ 35	7 40	9 32	Dark and cloudy,
3	Th	☉ rises 8h 3m	20 35	4 2	10 35	with cold rain
4	F		2 ♎ 47	0 10	11 41	or sleet.
5	S	*Old Christ. day*	15 16	3 s. 47	morn	
6	F	**2 S. a. C. Epip.**	28 7	7 40	0 48	*Twelfth Day*
7	M	*Plow Monday*	11 ♏ 26	11 19	1 57	✶ ♄ ☿, □ ♃ ☿
8	Tu	*Lucian*	25 14	14 30	3 8	
9	W		9 ♐ 32	16 55	4 21	More mild, but
10	Th	☉ sets 4h 3m	24 17	18 18	5 31	thick misty
11	F		9 ♑ 23	18 26	6 35	air.
12	S	*O. Now Y. day*	24 40	17 16	☽ sets	[✶ ☿ ☿
13	F	**1 S. aft. Epiph.**	9 ♒ 58	14 51	6 a 1	*Hila.* ☾ T. beg.
14	M	Oxf. T. begins	25 4	11 26	7 21	□ ☉ ♄
15	Tu	☉ rises 7h 51m	9 ♓ 51	7 22	8 40	Frost and snow
16	W		24 14	2 58	9 57	now about.
17	Th	*Old Twelfth-d.*	8 ♈ 9	1 n 28	11 10	
18	F	**Q. Ch. b. d. kept**	21 39	5 40	morn	*Prisca* ✶ ♄ ♂
19	S	☉ sets 4h 14m	4 ♉ 45	9 28	0 20	
20	F	**2 S. af. Epiph.**	17 31	12 44	1 28	*Fabian* □ ♃ ♂
21	M	*Agnes*	30 ♋	15 20	2 33	
22	Tu	*Vincent.*	12 ♊ 15	17 12	3 33	
23	W	Hil. Ter. beg.	24 22	18 15	4 30	Seasonable weather,
24	Th		6 ♌ 21	18 29	5 23	
25	F	**Conv. St. Paul**	18 15	17 55	6 7	with frosts,
26	S	☉ rises 7h 36m	0 ♌ 6	16 33	6 46	
27	F	**Septuagesi. Su.**	11 56	14 29	☽ rises	even to
28	M	[Pr. An. F. b.	23 46	11 48	6 a 13	
29	Tu	☉ sets 4h 29m	5 ♍ 39	8 38	7 14	
30	W	**K. Ch. I. mar.**	17 37	5 6	8 17	the end.
31	Th		29 42	1 19	9 22	

M D	Saturn Longit.	Declin.	Jupiter Longit.	Declin	Mars Longit.	Declin.	Venus Longit.	Declin.
1	25 ♈ 22	7 ♏ 27	24 ♏ 15	17 ♐ 57	12 ♒ 28	18 ♐ 11	17 ♒ 48	17 ♐ 14
7	25 27	7 30	25 18	18 12	17 11	16 46	25 5	14 45
13	25 37	7 35	26 19	18 26	21 55	15 14	2 ♓ 21	12
19	25 50	7 42	27 16	18 38	26 39	13 37	9 34	9
25	26 7	7 50	28 8	18 4	1 ♓ 23	11 58	16 43	6

M D	☉'s Longit	☉'s Declin.	Obfervations
1	11 ♑ 39	22. s 57	Pole Star ſouth 57m. paſt 5 at night
2	12 41	22 52	♄ ſets 23m. paſt 1 in the morning
3	13 42	22 45	♃ riſes 57m. paſt 3 in the morning
4	14 43	22 39	
5	15 44	22 32	
F	16 45	22 25	♀ ſets 20m. paſt 7 at night
7	17 46	22 17	♂ ſets 36m. paſt 6 at night
8	18 48	22 9	Day breaks 52m. paſt 5
9	19 48	22 0	Length of day is 8h. 2m.
10	20 50	21 51	
11	21 51	21 41	Seven Stars ſouth at 8 at night
12	22 52	21 31	☉ riſes at 56m. paſt 7
F	23 53	21 21	☿ ſtationary
14	24 55	21 10	Pole Star ſouth at 5 at night
15	25 56	20 59	Day breaks at 50m. paſt 5
16	26 57	20 47	
17	27 58	20 35	
18	28 59	20 23	
19	0 ♒ 0	20 10	☉ enters ♒ at noon
F	1 1	19 57	☉ ſets at 14m. paſt 4
21	2 2	19 44	Day 8h. 16m. long
22	3 3	19 30	☽ eclipſes Aldebaran at 33m. after 2 in the morning
23	4 4	19 15	
24	5 5	19 1	Greateſt elongation of Mercury
25	6 6	18 46	
26	7 7	18 31	Sirius South at 10 at night
F	8 8	18 15	Orion's Girdle, ſouth 43m. paſt 8 at night
28	9 9	17 59	Days are increaſed 1h. 9m.
29	10 10	17 43	Aldebaran ſouth 33m. paſt 7 at night
30	11 11	17 26	
31	12 11	17 9	

Lunations.	M D	Jupiter rises	Venus sets
Laſt Quarter 4th day, at 4 morning	1	2 m 26	6 a 46
New Moon 10th day, at 7 afternoon	7	2 5	6 49
Firſt Quarter 17th day, at 6 afternoon	13	1 44	6 53
Full Moon 25th day, at 11 night	19	1 24	6 56
	25	1 4	7 0

M	W D	Holy Days, ☉ riſes & ſets	☽'s Longit.	☽'s Declin.	☽ riſes & ſets	Aſpects and Weather
1	F	☉ riſes 7h 26m	11 ♎ 59	2 s 34	10 a 29	Unſettled weather
2	S	Purif. Can. day	24 30	6 25	11 36	
3	S	Sexageſima S.	7 ♏ 19	10 4	morn	*Blaſe*
4	M		20 32	13 19	0 44	begins the
5	Tu	*Agatha*	4 ♐ 9	15 57	1 53	△ ♃ ♀
6	W		18 14	17 44	3 3	□ ♄ ☿
7	Th	☉ ſets 4h 45m	2 ♑ 44	18 26	4 6	month.
8	F		17 36	17 55	5 6	✱ ♃ ☿
9	S		2 ♒ 43	16 8	5 57	Rough winds,
10	S	Quinq. Shro. S.	17 56	13 11	☽ ſets	
11	M	☉ riſes 7h 8m	3 ♓ 5	9 22	6 a 15	with rain or
12	Tu	Shrove Tueſd.	18 0	5 c	7 25	Hil. T. ends
13	W	Aſh-Wedneſ.	2 ♈ 34	0 26	8 43	*Old Cand. day*
14	Th	*Valentine*	16 43	4 n 1	9 58	ſnow.
15	F	*Cam. T. div. u.*	0 ♉ 24	8 6	11 19	
16	S		13 39	11 39	morn	
17	S	1 Sun. in Lent	26 29	14 31	0 18	
18	M	☉ ſets 5h 5m	9 ♊ 0	16 38	1 22	✱ ♀ ☿, □ ☉ ♃
19	Tu		21 14	17 56	2 22	
20	W	Ember Week	3 ♋ 16	18 25	3 15	Froſty air,
21	Th		15 10	18 3	4 3	with ſleet, or ſome
22	F	☉ riſes 6h 47m	27 0	16 56	4 44	cold rain.
23	S		8 ♌ 49	15 4	5 20	
24	S	2 S. in L. St. Mat-	20 39	12 33	5 53	
25	M	thi. Pr. A. F. b.	2 ♍ 34	9 30	☽ riſes	Bluſtering cold
26	Tu		14 35	6 3	6 a 10	✱ ♄ ☿
27	W		26 44	2 18	7 14	winds.
28	Th	☉ ſets 5h 24m	9 ♎ 2	1 s 36	8 20	□ ♃ ☿

M D	Saturn Longit.	Declin.	Jupiter Longit.	Declin.	Mars Longit.	Declin.	Venus Longit.	Declin.
1	26 ♈ 32	8 n 0	29 ♏ 4	19 s 1	6 ♓ 53	9 s 52	24 ♓ 59	2 s 32
7	26 56	8 10	29 46	19 9	11 35	8 3	1 ♈ 59	0 36
13	27 24	8 22	0 ♐ 23	19 17	16 17	6 11	8 53	3 44
19	27 55	8 34	0 54	19 22	20 58	4 18	15 42	6 49
25	28 28	8 47	1 20	19 26	25 37	2 24	22 23	9 48

M D	☉'s Longit.	☉'s Declin.	Observations
1	13 ♒ 12	16 s 52	♄ sets 22m. past 11 at night
2	14 13	16 35	♃ rises 19m. past 2 in the morning
F	15 14	16 17	♀ sets 33m. past 8 at night
4	16 15	15 59	Day breaks at 27m. past 5
5	17 15	15 41	Seven Stars south 16m. past 6 at night
6	18 16	15 22	
7	19 17	15 3	
8	20 18	14 44	Days increased 1h. 48m.
9	21 18	14 25	Pole Star south 13m. past 3 in the afternoon
F	22 19	14 5	
11	23 20	13 45	
12	24 20	13 25	☽ eclipses ♂ at 48m. after 6 in the morn.
13	25 21	13 5	
14	26 21	12 45	♂ sets 52m. past 6 at night
15	27 22	12 24	Day breaks at 8m. past 5
16	28 22	12 3	
F	29 23	11 42	
18	0 ♓ 23	11 21	☉ enters ♓ at 46m. after 2 morning
19	1 24	10 59	Day light ends at 58m. past 6
20	2 24	10 38	Length of days 10h. 18m.
21	3 24	10 16	Day is increased 2h. 36m.
22	4 25	9 54	
23	5 25	9 32	
F	6 25	9 10	Twilight ends at 8m. past 7
25	7 25	8 48	☽ eclipsed, visible at 11 at night
26	8 26	8 25	Sirius south 56m. past 7 at night
27	9 26	8 3	Day 10h. 42m. long, increased 3 hours
28	10 26	7 40	

Lunations.

Last Quarter 5th day, at 3 afternoon
New Moon 12th day, at 6 morning
First Quarter 19th day, at noon
Full Moon 27th day, at 4 afternoon

M D	Jupiter rises	Venus sets
1	0 m 50	7 a 3
7	0 28	7 7
13	0 6	7 11
19	11 a 43	7 15
25	11 20	7 20

M	W D	Holy Days, ☉ rises & sets	☽'s Longit.	☽'s Declin.	☽ rises & sets	Aspects and Weather
1	F	*David*	21 ♎ 31	5 s 28	9 a 27	
2	S	*Chad*	4 ♏ 14	9 10	10 36	Snow or cold
3	**F**	**3 Sun. in Lent**	17 12	12 29	11 45	☌ ♄ ♀
4	M		0 ♐ 28	15 15	morn	rain begins
5	Tu	☉ rises 6h 26m	14 2	17 15	0 52	△ ♃ ♂
6	W		27 55	18 17	1 58	this month.
7	Th	*Perpetua*	12 ♑ 8	18 13	2 58	
8	F		26 38	16 58	3 50	
9	S	☉ sets 5h 42m	11 ♒ 22	14 34	4 35	
10	**F**	**Midlent Sun.**	26 14	11 11	5 14	☌ ☉ ☿
11	M		11 ♓ 7	7 5	5 50	Dark and cloudy
12	Tu	*Gregory M.*	25 52	2 34	☽ sets	weather.
13	W		10 ♈ 24	2 n 2	7 a 36	
14	Th	☉ rises 6h 8m	24 35	6 24	8 49	
15	F		8 ♉ 22	10 17	9 59	More fine,
16	S		21 44	13 31	11 7	
17	**P**	**5 Sun. in Lent**	4 ♊ 41	15 59	morn	△ ♃ ☿
18	M	*Edw. K. W. S.*	17 17	17 36	0 14	*St. Patrick*
19	Tu	☉ sets 6h 2m	29 33	18 21	1 13	and pleasant
20	W		11 ♋ 36	18 15	2 4	for the season.
21	Th	*Benedict*	23 30	17 21	2 48	
22	F	Cam. T. ends	5 ♌ 19	15 41	3 25	
23	S	Oxf. T. ends	17 8	13 22	4 0	☌ ♂ ☿
24	**P**	**Palm Sunday**	29 1	10 28	4 30	Stormy winds,
25	M	**Annu. Lady D.**	11 ♍ 1	7 6	4 58	
26	Tu	☉ rises 5h 44m	23 12	3 24	5 21	with rain or
27	W		5 ♎ 34	0 s 31	☽ rises	sleet.
28	Th	*Maundy Thurs.*	18 10	4 28	7 a 24	
29	F	**Good Friday**	1 ♍ 0	8 17	8 34	
30	S	☉ sets 6h 24m	14 3	11 47	9 44	Unsettled.
31	**P**	**Easter Day**	27 20	14 42	10 52	

M D	Saturn Longit.	Saturn Declin.	Jupiter Longit.	Jupiter Declin.	Mars Longit.	Mars Declin.	Venus Longit.	Venus Declin.
1	28 ♈ 51	8 n 56	1 ♐ 33	19 s 29	28 ♓ 43	1 s 8	26 ♈ 45	11 n 43
7	29 28	9 10	1 48	19 31	3 20	0 n 46	3 ♉ 10	14 28
13	0 ♉ 8	9 25	1 56	19 32	7 56	2 39	9 23	17 1
19	0 48	9 40	1 R 57	19 32	12 31	4 33	15 24	19 21
25	1 31	9 55	1 52	19 30	17 4	6 19	21 7	21 26

M D	⊙'s Longit.	⊙'s Declin.	Observations
1	11 ♓ 26	7 s 17	Mercury is under the ſun beams
2	12 26	6 54	♂ ſets at 7 at night
F	13 26	6 31	♃ riſes 38m. paſt 12 at night
4	14 26	6 8	♄ ſets 37m. paſt 9 at night
5	15 26	5 45	Length of day 11h. 10m.
6	16 26	5 22	
7	17 26	4 58	
8	18 26	4 35	♀ ſets 7m. paſt 10 at night
9	19 26	4 11	Day is increaſed 3h. 39m.
F	20 25	3 48	
11	21 25	3 24	⊙ eclipſed, inviſible in theſe parts
12	22 25	3 1	Cor Hydra ſouth 45m. paſt 9 at night
13	23 25	2 37	Seven Stars ſets 17m. paſt 12 at night
14	24 25	2 13	Day breaks at 16m. paſt 4
15	25 24	1 50	
16	26 24	1 26	
F	27 23	1 2	♃ ſtationary
18	28 23	0 39	♀ greateſt elongation
19	29 22	0 15	
20	0 ♈ 22	0 n 9	⊙ enters ♈ at 8m. after 3 morning
21	1 21	0 32	♀ ſets 39m. paſt 10 at night
22	2 21	0 56	♄ ſets 45m. paſt 8 at night
23	3 20	1 20	♃ riſes 31m. paſt 11 at night
F	4 19	1 43	Seven Stars ſets 37m. paſt 11 at night
25	5 19	2 7	
26	6 18	2 30	
27	7 17	2 54	Daylight ends at 14m. paſt 8
28	8 16	3 17	Day breaks at 44m. paſt 5
29	9 16	3 40	⊙ full eaſt at 10m. paſt 6
30	10 15	4 4	
F	11 14	4 27	

Lunations.

Last Quarter 3d day, at 11 night
New Moon 10th day, at 5 afternoon
First Quarter 18th day, at 6 morning
Full Moon 26th day, at 5 morning

M D	Jupiter rises	Venus sets
1	10 a 53	7 a 2
7	10 29	7 21
13	10 4	7 32
19	9 39	7 36
25	9 14	7 4

M	W	Holy Days,	☽'s	☽'s	☽ rises	Aſpects and
D	D	☉ riſes & ſets	Longit.	Declin.	& ſets	Weather
1	M	Eaſter Monday	10 ♐ 51	16 s 56	11 a 59	
2	Tu	Eaſter Tueſday	24 33	18 12	morn	☌ ♄ ☿
3	W	*Richard Bp. Ch*	8 ♑ 27	18 25	1 0	Windy, with
4	Th	*St. Ambroſe*	22 32	17 30	1 55	ſhowers of
5	F	Old Lady Day	6 ♒ 45	15 29	2 42	☿ ♃ ♂
6	S	☉ riſes 5h 22m	21 6	12 30	3 22	rain.
7	F	Low Sunday	5 ♓ 31	8 43	3 56	
8	M		19 58	4 25	4 28	
9	Tu	☉ ſets 6h 43m	4 ♈ 20	0 n 7	4 57	Fine ſpring weather
10	W	Ox. & Ca. T. be.	18 33	4 35	☽ ſets	
11	Th		2 ♉ 32	8 44	7 a 50	for ſome
12	F		16 13	12 20	9 3	
13	S	☉ riſes 5h 9m	29 33	15 11	10 8	days.
14	F	2 S. aft. Eaſter	12 ♊ 31	17 12	11 9	
15	M		25 8	18 18	morn	
16	Tu		7 ♋ 27	18 31	0 5	Serene and
17	W	Eaſter Term b.	19 32	17 52	0 51	☌ ♄ ♂
18	Th	☉ ſets 7h 1m	1 ♌ 26	16 26	1 32	fine, but
19	F	*Alphege*	13 16	14 18	2 8	not without
20	S		25 6	11 35	2 40	
21	F	3 S. aft. Eaſter	7 ♍ 1	8 21	3 8	☌ ☍ ☿
22	M		19 6	4 44	3 32	ſome ſhowers,
23	Tu	St. George	1 ♎ 24	0 51	3 55	and
24	W	[Mary b.	14 0	3 s 9	4 20	☌ ☉ ♄
25	Th	St. Mark. Prs.	26 53	7 7	4 46	☌ ♄ ☿, ☌ ☉ ☿
26	F	☉ riſes 4h 45m	10 ♍ 4	10 49	☽ riſes	
27	S		23 33	14 2	8 a 46	claps of
28	F	4 Sun. af. Eaſt.	7 ♐ 16	16 33	9 55	thunder.
29	M		21 10	18 8	11 1	
30	Tu	☉ ſets 7h 23m	5 ♑ 12	18 38	11 58	Windy and wet.

M D	Saturn Longit.	Saturn Declin.	Jupiter Longit.	Jupiter Declin.	Mars Longit.	Mars Declin.	Venus Longit.	Venus Declin.
1	2 ♉ 22	10 n 13	1 ♐ 38	19 s 27	22 ♈ 21	8 n 23	27 ♉ 21	23 n 31
7	3 6	10 29	1 18	19 23	26 51	10 5	2 ♊ 13	24 57
13	3 52	10 45	♑ 53	19 17	1 ♉ 18	11 44	6 33	26 5
19	4 38	11 0	0 22	19 10	5 44	13 18	10 13	26 54
25	5 24	11 16	29 ♏ 46	19 3	10 9	14 47	13 1	27 22

M D	☉'s Longit.	☉'s Declin.	Obſervations
1	12 ♈ 13	4 n 50	☿ ſets 8m. paſt 11 at night
2	13 12	5 13	☿ ſouth at 51m. after 2 afternoon
3	14 11	5 36	♄ ſets 5m. paſt 8 at night
4	15 10	5 59	
5	16 9	6 21	☿ greateſt elongation, and ſets 2h. and
6	17 8	6 44	[1m. after the ſun
F	18 7	7 7	
8	19 5	7 29	♃ riſes 26m. paſt 10 at night
9	20 4	7 51	♃ ſouth at 41m. paſt 2 morning
10	21 3	8 13	Day breaks at 9m. paſt 3
11	22 2	8 35	
12	23 1	8 57	
13	23 59	9 19	☽ eclipſes a fixed ſtar at 7 at night
14	24 58	9 40	
15	25 56	10 2	☿ ſtationary, parallel with the ſun
16	26 55	10 23	Br. foot of Orion ſets 44m. paſt 8 night
17	27 54	10 44	
18	28 52	11 5	
19	29 51	11 26	☉ enters ♉ at 51m. after 3 afternoon
20	0 ♉ 49	11 46	Daylight ends at 19m. paſt 9
F	1 47	12 6	Seven Stars ſets 54m. paſt 9 at night
22	2 46	12 27	Great Dog ſets 11m. paſt 9 at night
23	3 44	12 47	
24	4 42	13 6	
25	5 41	13 26	♄, ♂, and ☿ are under the ſun-beams
26	6 39	13 45	
27	7 37	14 4	
F	8 35	14 23	♃ riſes at 9 at night
29	9 33	14 41	♃ ſouth 19m. paſt 1 in the morning
30	10 32	15 0	☉ due eaſt at 49m. paſt 6

Lunations.			
Laſt Quarter	3d	day, at	4 morning
New Moon	10th	day, at	4 morning
Firſt Quarter	18th	day, at	1 morning
Full Moon	25th	day, at	4 afternoon

M D	Jupiter riſes	Venus ſets
1	8 a 48	7 a 42
7	8 21	7 43
13	7 54	7 44
19	7 26	7 45
25	6 58	7 45

M D	W D	Holy Days, ☉ riſes & ſets	☽'s Longit.	☽'s Declin.	☽ riſes & ſets	Aſpects and Weather
1	W	St. Phil. & Jam.	19 ♈ 18	18 s 0	morn	
2	Th	☉ riſes 4h 34m	3 ♉ 27	16 14	0 49	May begins cold,
3	F	*Inv. of the Croſs*	17 35	13 29	1 29	as it often
4	S		1 ♊ 43	9 56	2 5	does.
5	✠	Rogation Sun.	15 48	5 50	2 37	
6	M	*☽ Ev. a. P. L.*	29 49	1 25	3 6	
7	Tu		13 ♋ 45	3 n 2	3 32	Seaſonable
8	W	☉ ſets 7h 36m	27 33	7 17	4 0	and more
9	Th	Aſc. Ho. Thu.	11 ♌ 10	11 6	4 28	warm.
10	F		24 34	14 16	☽ ſets	
11	S	☉ riſes 4h 19m	7 ♍ 41	16 39	9 a 6	
12	✠	S. af. Aſcenſi.	20 31	18 9	9 59	*Old May Day*
13	M	Eaſter T. ends	3 ♎ 3	18 43	10 49	♂ ☉ ♂
14	Tu		15 20	18 23	11 34	
15	W		27 23	17 13	morn	Some thunder
16	Th	Oxford T. e.	9 ♏ 17	15 19	0 12	ſhowers may now
17	F	☉ ſets 7h 50m	21 7	12 46	0 44	☿ ☉ ♃
18	S		2 ♐ 56	9 42	1 12	☿ ♃ ♂
19	✠	Wh. S. Q. C. b.	14 52	6 13	1 37	*Dunſtan*
20	M	Whit Monday	26 59	2 25	2 1	be expected.
21	Tu	Whit Tueſday	9 ♑ 22	1 s 34	2 25	
22	W	Ember W. Prs.	22 5	5 34	2 49	
23	Th	[Eliz. b.	5 ♒ 11	9 21	3 14	Briſk winds,
24	F	☉ riſes 4h 1m	18 40	12 56	3 44	♂ ♄ ☿
25	S		2 ♓ 30	15 49	☽ riſes	with
26	✠	Trinity Sund.	16 39	17 50	8 a 48	*Auguſtine Abp.*
27	M	*Venerable Bede*	1 ♉ 0	18 45	9 51	♂ ☉ ☿
28	Tu	☉ ſets 8h 4m	15 27	18 28	10 45	ſhowers of
29	W	K. Cha. II. reſt.	29 55	16 59	11 31	Oxf. Term be.
30	Th	*Corpus Chriſti*	14 ♊ 18	14 25	morn	♂ ♂ ☿
31	F	Term begins	28 34	11 11	0 9	rain.

D M	Saturn Long.	Declin.	Jupiter Long.	Declin.	Mars Long.	Declin.	Venus Long.	Declin.
1	6 ♉ 10	11 n 31	29 ♍ 5	18 s 54	14 ♉ 30	16 n 10	14 ♊ 45	27 n 29
7	6 55	11 46	28 22	18 45	18 50	17 29	15 ℞ 13	27 12
13	7 41	12 1	27 37	18 35	23 8	18 41	14 16	26 27
19	8 26	12 14	27 0	18 25	27 25	19 46	11 55	25 12
25	9 9	12 28	26 6	18 15	♊ 40	20 44	8 31	23 28

D M	Sun's Longit.	Sun's Declin.	Observations		
1	♉ 11 39	15 n 18	☿ sets at	11 3	Night.
2	12 28	15 36	♃ rises at	8 45	Night.
3	13 26	15 53	Day breaks at	2 10	Morn.
4	14 24	16 11			
F	15 22	16 28	☿ Stationary.		
6	16 20	16 44	Day is increased	7 21	
7	17 18	17 1			
8	18 16	17 17	♂ Stationary.		
9	19 14	17 33	Twilight ends at	10 36	
10	20 12	17 49	Length of day	15 20	
11	21 10	18 4	♂ rises at	3 52	Morn.
F	22 7	18 19			
13	23 5	18 34	Length of day is	15 28	
14	24 3	18 48	Length of night	8 30	
15	25 1	19 2			
16	25 59	19 16			
17	26 56	19 30			
18	27 54	19 43	♃ shines gloriously all night.		
F	28 52	19 56			
20	29 49	20 8	☉ enters ♊ at	4 26	Aftern.
21	0 ♊ 47	20 20			
22	1 45	20 32	☿ greatest elongation, and		
23	2 42	20 43	Rises 37 m. before the sun.		
24	3 40	20 54	♄ rises at	3 11	Morn.
25	4 37	21 5	♀ under the Sun-beams.		
F	5 35	21 15	♃ south	11 20	night.
27	6 32	21 25			
28	7 30	21 35			
29	8 27	21 44	Day is increased	8 26	
30	9 25	21 53	☉ due east at	7 16	
31	10 22	22 2			

Lunations

	M D	Jupiter sets	Venus rises
Laſt Quarter the 1ſt day, at 10 morning.	1	3 m22	3 m
New Moon the 8th day, at 3 afternoon.	7	2 55	3
Firſt Quarter the 16th day, at 6 afternoon.	13	2 29	3
Full Moon the 23d day, at midnight.	19	2 3	3
Laſt Quarter the 30th day, at 3 afternoon.	25	1 37	2

M D	W D	Holy-Days Sun riſes & ſets	Moon's Longit.	Moon's Declin.	☽ riſes & ſets	Aſpects and Weather
1	S	Nicomede	12 ♓ 40	7 s 0	om 43	Showers begin
2	F	1 S. aft. Tri.	26 35	2 39	1 10	this month,
3	M	☉ riſes 3 51	10 ♈ 21	1 n 47	1 36	which indicate
4	T	K. Geo. III. b.	23 56	6 4	2 3	
5	W	Pr. Ern. A. b.	7 ♉ 21	9 59	2 29	Boniface.
6	T		20 34	13 21	3 0	
7	F	☉ ſets 8 12	3 ♊ 36	16 0	3 33	a fine growing
8	S		16 25	17 49	☽ ſets	♂ ☿ ♅
9	F	2 S. af. Trin.	29 0	18 44	8 a 40	time.
10	M		11 ♋ 22	18 44	9 27	
11	T	St. Barnabas	23 32	17 52	10 7	
12	W		5 ♌ 31	16 12	10 42	Pleaſant
13	T	☉ riſes 3 44	17 22	13 52	11 13	weather now
14	F		29 10	10 58	11 38	about.
15	S	☉ ſets 8 16	10 ♍ 58	7 38	morn	
16	F	3 S. af. Trin.	22 53	3 57	0 3	
17	M	St. Alban.	5 ♎ 0	0 4	0 24	♂ ♂ ♅
18	T		17 23	3 s 54	0 47	Hot, perhaps
19	W	Trin. T. ends	0 ♏ 8	7 49	1 11	ſome claps of
20	T	T. E. K. W. S.	13 19	11 29	1 37	thunder.
21	F	Longeſt Day	26 56	14 40	2 8	
22	S		10 ♐ 59	17 7	2 45	
23	F	4 S. af. Trin.	25 25	18 33	☽ riſes	
24	M	Nat. of J. Bap.	10 ♑ 7	18 47	8 a 32	Midſom. Day
25	T	☉ riſes 3 43	24 58	17 45	9 22	[6 ☉
26	W		9 ♒ 49	15 30	10 3	Fruitful
27	T	☉ ſets 8 16	24 33	12 15	10 39	ſhowers at
28	F		9 ♓ 4	8 17	11 9	✶ ♄ ♅
29	S	St. Peter	23 20	3 55	11 37	
30	F	5 S. af. Trin.	7 ♈ 17	0 n 35	morn	the end.

D M	Saturn Long.	Decl.	Jupiter Long.	Declin.	Mars Long.	Decl.	Venus Long.	Declin.
1	9 ♑ 59	12 n 43	25 ♏ 15	18 s 5	6 ♊ 35	21 n 43	4 ♊ 11	21 n 6
7	10 40	12 55	24 34	17 56	10 46	22 25	1 6	19 11
13	11 19	13 7	23 57	17 48	14 55	23 1	29 ♉ 14	17 42
19	11 56	13 18	23 24	17 41	19 2	23 28	28 ☊ 44	16 45
25	12 32	13 28	22 56	17 35	23 7	23 49	29 37	16 34

D M	Sun's Longit.	Sun's Declin.	Observations	h.	m.	
1	♌ 11 19	22 n 10	No real night, but			
F	12 17	22 17	All day or twilight.			
3	13 14	22 25	rises at	3	6	Morn.
4	14 12	22 32	♄ rises at	2	29	Morn.
5	15 9	22 38	♃ south, at	10	32	Night.
6	16 6	22 44				
7	17 4	22 50				
8	18 1	22 55				
F	18 59	23 0	Seven Stars rise at	2	6	Morn.
10	19 56	23 5	Antares south at	11	0	Night.
11	20 53	23 9	Length of day is	16	30	
12	21 51	23 13				
13	22 48	23 16	Day is increased	8	48	
14	23 45	23 19	Sun due east at	7	20	
15	24 42	23 21	Clock with the sun.			
F	25 40	23 24				
17	26 37	23 25	Venus stationary.			
18	27 34	23 26	No real night, but			
19	28 31	23 27	All day or twilight.			
20	29 29	23 28				
21	0 ♍ 26	23 28	Sun enters ♍ at	1	10	Morn.
22	1 23	23 27	♃ south at	9	16	Night.
F	2 20	23 27	♃ sets at	1	39	Morn.
24	3 17	23 25	♄ rises at	1	11	Morn.
25	4 15	23 24	♀ rises at	2	0	Morn.
26	5 12	23 22				
27	6 9	23 19				
28	7 6	23 16	Longest day at Stamford	16	36	
29	8 3	23 13	Sun due east at	7	20	
F	9 0	23 9	Day is decreased	0	4	

Lunations

New Moon 8th day, at 5 morning.
First Quarter the 16th day, at 9 morning.
Full Moon the 23d day, at 7 morning.
Last quarter the 29th day, at 11 at night.

M D	Jupiter sets	Venus rises
1	1m 11	2m 42
7	0 45	2 36
13	0 19	2 30
19	11 a 53	2 24
25	11 28	2 18

D M	W D	Holy-Days Sun rises & sets	Moon's Longit.	Moon's Declin.	☽ rises & sets.	Aspects and Weather
1	M	☉ rises 3 46	20 ♈ 58	4 n 57	cm 3	Fine weather
2	T	Visitat. V. M.	4 ♉ 21	8 58	0 29	Camb. com.
3	W	Dog-Days be.	17 30	12 28	0 58	
4	T	Tr. St. Mart.	0 ♊ 25	15 19	1 29	begins this
5	F	Ca. T. ends.	13 8	17 22	2 4	Old Midsum.
6	S		25 38	18 33	2 45	month.
7	F	6 S. af. Trin.	7 ♋ 58	18 51	3 29	Tho. à Becket
8	M	Oxford Act	20 7	18 15	☽ sets	
9	T		2 ♌ 7	16 51	8 a 38	Some flying
10	W	Sun sets 8 8	14 0	14 44	9 9	
11	T		25 48	12 0	9 36	☌ ☿ ☿
12	F		7 ♍ 34	8 48	10 2	showers
13	S	Oxf. T. ends	19 23	5 15	10 25	near this
14	F	7 S. af. Trin.	1 ♎ 17	1 28	10 47	time.
15	M	Swithin.	13 23	2 s 26	11 10	□ ♄ ☿
16	T		25 45	6 19	11 35	
17	W	Sun rises 3 59	8 ♏ 28	10 1	morn.	Hot and
18	T		21 36	13 20	0 3	sultry, with
19	F	Sun sets 7 58	5 ♐ 12	16 5	0 37	rain at
20	S	Margaret	19 16	17 59	1 17	□ ♅ ☿
21	F	8 S. af. Trin.	3 ♑ 46	18 47	2 5	intervals.
22	M	Magdalen.	18 37	18 21	3 5	
23	T		3 ♒ 41	16 36	☽ rises	
24	W	Sun rises 4 8	18 50	13 42	8 a 32	
25	T	St. James	3 ♓ 53	9 53	9 7	More pleasant,
26	F	St. Anne	18 42	5 30	9 36	but not
27	S		3 ♈ 12	0 54	10 4	☌ ♄ ♂
28	F	9 S. af. Trin.	17 20	3 n 38	10 32	without thun-
29	M		1 ♉ 5	7 51	10 59	
30	T	Sun sets 7 43	14 27	11 33	11 31	der claps.
31	W		27 29	14 35	morn	

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	13 ♉ 5	13 n 36	22 ♍ 34	17 s 31	27 ♊ 12	24 n 1	1 ♌ 40	16 n 28
7	13 36	13 44	22 18	17 28	19 ♋ 14	24 6	4 41	16 52
13	14 3	13 51	22 9	17 27	5 15	24 3	8 29	17 29
19	14 28	13 58	22D 6	17 28	9 34	23 53	12 53	18 12
25	14 50	14 3	22 10	17 30	13 12	23 36	17 46	18 56

M D	Sun's Longit.	Sun's Declin.	Observations		
1	9 ♋ 58	23 n 5	Day is decreased	0 5	
2	10 55	23 1	♃ south at	8 33	Night.
3	11 52	22 56	♃ sets at	1 0	Morn.
4	12 49	22 51	♄ rises at	12 32	Night.
5	13 47	22 45	☿ sets at	9 0	Night.
6	14 44	22 39			
F	15 41	22 32			
8	16 38	22 26	♀ rises at	1 27	Morn.
9	17 35	22 18	♂ rises at	2 33	Morn.
10	18 33	22 11	☉ due east at	7 16	
11	19 30	22 3	Day is decreased	0 20	
12	20 27	21 54	No real night, but		
13	21 24	21 46	All day or twilight.		
F	22 22	21 36			
15	23 19	21 27			
16	24 16	21 17			
17	25 14	21 7	♃ sets at	12 0	Night.
18	26 11	20 56	♃ stationary.		
19	27 8	20 45	Length of day	15 56	
20	28 5	20 34			
F	29 3	20 22			
22	30 0	20 10	Sun enters ♌ at	12 4	Noon.
23	0 ♌ 57	19 58	☿ with Cor Leonis.		
24	1 54	19 45	☿ sets at	8 48	Night.
25	2 52	19 32	Day is decreased	0 54	
26	3 49	19 19			
27	4 46	19 5			
F	5 44	18 51	♀ rises at	1 0	Morn.
29	6 41	18 37			
30	7 39	18 23	☽ eclipses, a small fixed		
31	8 36	18 8	star, at	1 12	

Lunations

New Moon the 6th day, at 8, afternoon.
First Quarter 14th day, at 9 night.
Full Moon 21st day, at 3 afternoon.
Last Quarter the 28th day, at 9 morning.

M D	Jupiter sets	Venus rises
1	11 a 2	2m 13
7	10 40	2 -15
13	10 18	2 16
19	9 57	2
25	9 36	2

M D	W D	Holy-Days ☉ rises & sets	Moon's Longit.	Moon's Declin.	☽ rises & sets	Aspects and Weather
1	T	Lammas day	10♊14	16 n 50	☽m 5	Good harveſt
2	F		22 43	18 15	0 44	
3	S	Sun riſes 4 23	4♋59	18 46	1 26	weather begins
4	F	10 S. af. Trin.	17 5	18 26	2 16	
5	M		29 4	17 16	3 9	the month.
6	T	Transfigurat.	10♌56	15 21	☽ ſets	
7	W	Prs. Amelia b.	22 45	12 48	7 a 34	Name of Jeſus.
8	T	Sun ſets 7 29	4♍31	9 44	8 7	△ ♃ ♂, □ ☉ ♄
9	F		16 19	6 17	8 30	Wind and rain
10	S	St Lawrence	28 10	2 34	8 54	[Do. Da.
11	F	11 S. af. Trin.	10♎7	1 s 17	9 15	Pr. Brunſwick's
12	M	Pr. of Wales b.	22 16	5 8	9 40	Old Lammas da.
13	T	Sun riſes 4 40	4♏38	8 49	10 6	△ ♄ ☿
14	W		17 19	12 13	10 36	now about,
15	T	Aſſumption	0♐23	15 6	11 12	□ ☉ ♃
16	F	D. of York b.	13 51	17 17	11 55	
17	S		27 47	18 31	morn	Thunder ſtorms
18	F	12 S. af. Trin.	12♑8	18 39	0 49	
19	M	Sun ſets 7 9	26 54	17 31	1 52	in ſome places.
20	T		11♒56	15 9	3 4	
21	W	D. of Clare. b.	27 8	11 43	☽ riſes	△ ♄ ☿
22	T		12♓19	7 29	7 a 38	✱ ♀ ☿
23	F		27 21	2 50	8 8	✱ ♄ ♀
24	S	St. Bartholo.	12♈5	1 n 54	8 37	Windy, with
25	F	13 S. af. Trin.	26 26	6 24	9 5	
26	M	Sun riſes 5 4	10♉21	10 24	9 36	flying ſhowers,
27	T		23 49	13 43	10 10	
28	W	St. Auguſtin	6♊53	16 15	10 48	even to the
29	T	Beh. J. Bapt.	19 34	17 55	11 30	♂ ☉ ☿
30	F		1♋57	18 41	morn	△ ♃ ♀ end.
31	S	Sun ſets 6 47	14 6	18 34	0 16	

D M	Saturn Long.	Saturn Decl.	Jupiter Long.	Jupiter Decl.	Mars Long.	Mars Decl.	Venus Long.	Venus Decl.
1	15 ♉ 11	14 n 8	22 ♍ 22	17 s 35	17 ♌ 54	23 n 7	23 ♊ 58	19 s 41
7	15 26	14 11	22 41	17 41	21 43	22 36	29 37	20 10
13	15 37	14 12	23 5	17 49	25 36	21 59	5 ♋ 31	20 26
19	15 45	14 13	23 34	17 58	29 28	21 16	11 38	20 28
25	15 47	14 13	24 9	18 8	3 ♎ 18	20 27	17 56	20 13

D M	Sun's Longit.	Sun's Declin.	Observations		
1	9 ♌ 34	17 n 53			
2	10 31	17 37	☿ greateſt elongation.		
3	11 28	17 21	☿ ſets at	8 18	Night.
F	12 26	17 5	Day is decreaſed	1 24	
5	13 24	16 49			
6	14 21	16 33	♀ greateſt elongation.		
7	15 19	16 16	♄ riſes at	10 24	Night.
8	16 16	15 59	♃ ſets at	10 34	Night.
9	17 14	15 41	♂ riſes at	2 11	Morn.
10	18 12	15 24	♀ riſes at	12 54	Night.
F	19 9	15 6	☿ ſets at	7 55	Night.
12	20 7	14 48			
13	21 5	14 29			
14	22 2	14 11	☽ eclipſes a ſmall fixed ſtar, at	9 15	Night.
15	23 0	13 52			
16	23 58	13 33			
17	24 55	13 14	☿ ſtationary.		
F	25 53	12 54	♀ riſes at	1 0	Morn.
19	26 52	12 35	Day is decreaſed	2 16	
20	27 49	12 15			
21	28 47	11 55	☽ eclipſed inviſible.		
22	29 44	11 34	Sun enters ♍ at	6 28	Aftern.
23	0 ♍ 42	11 14			
24	1 40	10 53	Day breaks at	2 47	
F	2 38	10 33	☉ due eaſt at	6 33	Aftern.
26	3 36	10 12			
27	4 34	9 51	☽ eclipſes a ſmall ſtar at	4 α	Morn.
28	5 32	9 29			
29	6 30	9 8			
30	7 28	8 47	☿ under the ſun-beams.		
31	8 26	8 25	Clock with ſun.		

Lunations

New Moon the 5th day, at noon.
First Quarter the 13 day, at 8 morning.
Full Moon the 19th day, at 11 night.
Last Quarter the 26th day, at midnight.

M D	Jupiter sets	Venu rises
1	9 a 13	2m 7
7	8 53	✕ 7
13	8 33	2 7
19	8 14	2 7
25	7 55	2 7

M D	W D	Holy-Days ☉ rises & sets	Moon's Longit.	Moon's Declin.	☽ rises & sets	Aspects and Weather
1	F	14 S. af. Trin.	26♑ 4	17 n 37	1 m 9	Giles.
2	M	Lon. bt. 1666	7♌56	15 53	2 5	This month
3	T		19 43	13 30	3 4	also begins
4	W	Sun rises 5 21	1♍30	10 33	4 6	pretty fine,
5	T		13 19	7 11	☽ sets	
6	F		25 11	3 31	7 a 6	for those
7	S	Eunuchus.	7♎10	0 s 20	7 29	
8	F	15 S. af. Trin.	19 17	4 12	7 52	Nat. B. V. M.
9	M		1♍34	7 56	8 18	that have
10	T	Sun sets 6 28	14 3	11 23	8 47	not done
11	W		26 4♏	14 23	9 18	harvest.
12	T		9♐51	16 44	9 58	
13	F	☉ rises 5 38	23 14	18 15	10 47	□ ♄ ♂
14	S		6♑59	18 46	11 43	
15	F	16 S. af. Trin	21 6	18 8	morn	Some rain
16	M		5♒35	16 18	0 51	now, if not
17	T	Lambert.	20 21	13 22	2 5	thunder also.
18	W	Ember Week	5♓20	9 30	3 25	□ ♄ ♀.
19	T		20 25	5 1	☽ rises	
20	F	☉ sets 6 8	5♈25	0 13	6 a 42	Unsettled,
21	S	St. Matthew	20 14	4 n 30	7 12	with
22	F	17 S. af. Trin.	4♉42	8 52	7 43	K. Geo. III. cr.
23	M		18 45	12 35	8 16	[△ ♄ ☿
24	T	Sun rises 6 0	2♊21	15 31	8 52	more showers,
25	W	Holy Cross.	15 31	17 32	9 34	☌ ☌ ♀
26	T	St. Cyprian	28 15	18 37	10 21	
27	F		10♋38	18 45	11 12	and rough
28	S	☉ sets 5 52	22 45	18 1	morn	winds.
29	F	18 S. Tr. Mic.	4♌40	16 29	0 7	Prs. Royal born
30	M	St. Jerome.	16 29	14 15	1 6	□ ♃ ♀
						Fine.

D M	Saturn Long.	Decl.	Jupiter Long.	Decl.	Mars Long.	Decl.	Venus Long.	Decl.
1	15 8 47	14 n 11	24 m 56	18 s 20	7 ♌ 45	19 n 25	25 ♎ 29	19 n 34
7	15 42	14 8	25 43	18 32	21 33	18 26	2 ♍ 7	18 39
13	15 33	14 5	26 33	18 45	15 19	17 03	8 51	17 26
19	15 20	14 0	27 28	18 59	19 4	16 17	15 41	15 56
25	15 5	13 54	28 29	19 14	22 47	15 8	22 37	14 8

D M	Sun's Longit	Sun's Declin.	Observations
F	9 ♍ 25	8 n 3	On the 5th day of this month, in the
2	10 23	7 41	morning, about 11 o'clock, there hap-
3	11 21	7 19	pens a remarkable eclipse of the sun.
4	12 19	6 57	
5	13 18	6 34	*How to behold perfectly an eclipse of the sun*
6	14 16	6 12	*without hurt to the eyes.*
7	15 14	5 49	
F	16 13	5 27	Take a burning-glass, or a spectacle-
9	17 11	5 4	glass, such as are for the eldest sight, and
10	18 9	4 41	hold this glass in the sun, as if you
11	19 8	4 18	would burn with it, against a paste-
12	20 6	3 55	board or white paper book, or such like,
13	21 5	3 32	and draw the glass from the board or
14	22 3	3 9	book, twice the space or distance, as you
F	23 2	2 46	would do if you intended to burn with it;
16	24 1	2 23	so by direct holding of it nearer or fur-
17	24 59	2 0	ther, as you shall see best, you may be-
18	25 58	1 36	hold upon your white paste-board, paper
19	26 57	1 13	or book, the round body of the sun, and
20	27 55	0 50	how the moon passeth between the earth
21	28 54	0 26	and the sun, during all the time of the
F	29 53	0 3	eclipse.
23	0 ♎ 52	0 s 21	
24	1 50	0 44	
25	2 49	1 7	
26	3 48	1 31	Day breaks at 4 6
27	4 47	1 54	Day is decreased 4 45
28	5 46	2 18	
F	6 45	2 41	Twilight ends at 7 46
30	7 44	3 4	☿ sets at 7 37 Night

Lunations

New Moon the 5th day, at 5 morning.
First Quarter the 12th day, at 5 afternoon.
Full Moon the 19th day, at 9 morning.
Last Quarter the 26th day, at 6 afternoon.

M D	Jupiter sets	Venus rises
1	7 a 36	2 m 7
7	7 16	2 6
13	6 57	2 5
19	6 38	2 3
25	6 19	2 0

M D	W D	Holy-Days ☉ rises & sets	Moon's Longit.	Moon's Declin.	☽ rises & sets	Aspects and Weather
1	T	Remigius	28 ♌ 15	11 n 27	2 m 6	✶ ♃ ♆
2	W		10 ♍ 3	8 10	3 10	Windy weather
3	T	Sun rises 6 18	21 56	4 32	4 12	now about.
4	F		3 ♎ 57	0 41	5 15	
5	S		16 8	3 s 14	☽ sets	
6	F	19 S. af. Trin.	28 29	7 5	6 a 31	Faith
7	M		11 ♍ 2	10 40	6 58	Fine, temperate,
8	T	☉ sets 5 32	23 47	13 50	7 29	□ ♃ ♂
9	W	St. Denys.	6 ♐ 45	16 22	8 7	
10	T	Ox. & Ca. T. b	19 57	18 6	8 52	Old Mich. day,
11	F		3 ♑ 22	18 53	9 43	and good
12	S		17 3	18 34	10 44	
13	F	20 S. af. Trin.	0 ♒ 59	17 8	11 52	Tr. K. Ed. Con.
14	M		15 10	14 37	morn	[△ ♄ ☿, ☌ ☉ ♅
15	T	Sun rises 6 41	29 35	11 10	1 9	weather now
16	W		14 ♓ 12	6 59	2 28	for the farmers
17	T	Etheldred	28 55	2 21	3 47	wheat seed-
18	F	St. Luke.	13 ♈ 39	2 n 26	5 9	time.
19	S	Sun sets 5 11	28 15	7 1	☽ rises	
20	F	21 S. af. Trin.	12 ♉ 38	11 7	6 a 16	
21	M		26 41	14 30	6 52	Frosty mornings,
22	T		10 ♊ 19	16 59	7 33	with windy
23	W	Sun rises 6 56	23 31	18 29	8 17	
24	T		6 ♋ 19	18 59	9 7	
25	F	K. Geo. III. a.	18 45	18 32	10 3	Crispin.
26	S	K. Geo. III. pr.	0 ♌ 54	17 14	11 0	☌ ♄ ☿, ✶ ♂ ♆
27	F	22 S. af. Trin.	12 49	15 12	11 59	cold weather.
28	M	St. Sim. & Jud.	24 38	12 32	morn	△ ♄ ♂
29	T		6 ♍ 25	9 21	1 2	
30	W	☉ sets 4 51	18 15	5 48	2 5	✶ ♃ ♆
31	T		0 ♎ 13	1 58	3 9	

M	Saturn		Jupiter		Mars		Venus.	
D	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl
1	14 ♎ 46	13 n 48	29 ♍ 29	19,s 28	26 ♌ 29	13 n 56	29 ♌ 38	12 n
7	14 24	13 41	0 ♎ 35	19 42	0 ♍ 9	12 41	6 ♍ 43	9 4
13	13 59	13 33	1 43	19 57	3 48	11 25	13 52	7 2
19	13 33	13 25	2 55	20 12	7 25	10 7	21 6	4 4
25	13 5	13 16	4 8	20 27	11 1	8 48	28 21	2

M	Sun's	'Sun's	Obſervations		
D	Longit.	Declin.			
1	8 ♎ 43	3 s 28	in ♂ with Cor Leonis.		
2	9 45	3 51	riſes at	7 0	Night.
3	10 42	4 14	♃ ſets at	7 27	Night.
4	11 41	4 38	♂ riſes at	2 9	Morn.
5	12 ♏ 40	5 1	♀ riſes at	2 46	Morn.
F	13 40	5 24			
7	14 39	5 47			
8	15 38	6 10	Day is decreaſed	5 28	
9	16 38	6 33	Day breaks at	4 38	
10	17 37	6 55	☉ riſes at	6 30	
11	18 37	7 18	Length of day	10 54	
12	19 36	7 41			
F	20 36	8 3	☿ under the ſun-beams.		
14	21 35	8 25			
15	22 35	8 48	Twilight ends at	7 12	
16	23 34	9 10	Seven ſtars ſouth at	2 0	Morn.
17	24 34	9 32	Aldebaran ſouth at	2 52	Morn.
18	25 34	9 54			
19	26 33	10 15			
F	27 33	10 37			
21	28 33	10 58	Day breaks at	4 58	
22	29 33	11 19	Sun enters ♏ at	10 56	Night.
23	0 ♏ 33	11 40	♄ ſouth at	1 0	Morn.
24	1 32	12 1	♃ ſets at	6 21	Night.
25	2 32	12 22	♂ riſes at	2 0	Morn.
26	3 32	12 43	♀ riſes at	3 43	Morn.
F	4 32	13 3			
28	5 32	13 23			
29	6 32	13 43	Day 9 h. 44 m. long, decr. 6 h. 50 m.		
30	7 33	14 2			
31	8 33	14 22			

Lunations

New Moon the 3d day at 8 night.
First Quarter the 11th day, at 1 morning.
Full Moon the 17th day, at 9 night.
Last Quarter the 25th day, at 3 afternoon.

M D	Jupiter sets	Venus rises
1	5 a 57	1 m 58
7	5 37	2 54
13	5 17	2 49
19	4 57	2 43
25	4 36	2 37

M D	W D	Holy-Days ☉ rises & sets	Moon's Longit.	Moon's Declin.	☽ rises & sets	Aspects and Weather
1	F	**All Saints**	12 ♎ 22	1 s 59	4 m 13	
2	S	Pr. Edward b.	24 46	5 57	5 18	All Souls.
3	**F**	**23 S. af. Trin.**	7 ♏ 24	9 43	☽ sets	**Prs. Sophia born**
4	M	K. William la.	20 18	13 7	5 a 32	[8 ☉ ♄
5	T	Powder Plot	3 ♐ 25	15 55	6 8	Cold rain
6	W	Leon. Ter. b.	16 46	17 56	6 50	now about,
7	T	☉ sets 4 36	0 ♑ 17	18 59	7 41	
8	F	Prs. Aug. S. b.	13 58	18 57	8 40	Frosty, with
9	S	Ld. May. day	27 46	17 47	9 45	
10	**F**	**24 S. af. Trin.**	11 ♒ 42	15 33	10 58	some sleet.
11	M	St. Martin.	25 44	12 23	morn	
12	T	Ca. T. div. m.	29 ♓ 53	8 28	0 13	♂ ☊ ♆
13	W	Britius.	24 7	4 2	1 29	
14	T		8 ♈ 25	0 n 38	2 48	Cloudy weather,
15	F	Machutus.	22 42	5 15	4 5	with some
16	S		6 ♉ 55	9 33	5 23	
17	**F**	**25 S. af. Trin.**	20 58	13 16	☽ rises	Hugh Bp. Lin.
18	M	☉ rises 7 41	4 ♊ 46	16 11	5 a 24	showers.
19	T		18 15	18 10	6 6	
20	W	Edm. K. & M.	1 ♋ 22	19 6	6 54	
21	T	☉ sets 4 15	14 9	19 2	7 46	Bluftering
22	F	Cecilia.	26 35	18 5	8 44	Old Martin. day
23	S	St. Clement.	8 ♌ 44	16 14	9 44	winds, with
24	**F**	**26 S. af. Trin.**	20 41	13 41	10 44	
25	M	D. of Glou. b.	2 ♍ 30	10 42	11 46	Catherine.
26	T	☿ rises 7 52	14 18	7 15	morn	cold rain or
27	W		26 9	3 30	0 50	
28	T	Mic. T. ends.	8 ♎ 10	0 s 27	1 54	♂ ♄ ♀
29	F	☉ sets 4 5	20 24	4 26	2 58	sleet at the
30	S	St. Andrew	2 ♏ 56	8 20	4 4	end.

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	12 ♑ 32	13 n 7	♐ 36	20 s 43	15 ♑ 10	7 n 15	6 ♎ 54	1 s 13
7	12 3	12 58	6 54	20 58	18 41	5 55	14 17	4 2
13	11 34	12 50	8 13	21 11	22 16	4 35	21 41	6 50
19	11 6	12 42	9 33	21 24	25 37	3 15	29 6	9 33
25	10 39	12 34	10 53	21 36	29 2	1 55	6 ♏ 33	12 9

D	Sun's Longit	Sun's Declin.	Observations		
1	9 ♏ 33	14 s 41	☽ south at	12 13	Night.
2	10 33	15 0	♃ sets at	5 51	Aftern
F	11 33	15 19			
4	12 34	15 37	♄ shines all night.		
5	13 34	15 56	☿ rises at	1 56	Morn.
6	14 34	16 14	♀ rises at	4 20	Morn.
7	15 35	16 31	Length of day is	9 12	
8	16 35	16 49	Day is decreased	7 24	
9	17 35	17 6			
F	18 36	17 23			
11	19 36	17 39			
12	20 37	17 55	Seven Stars south at	12 22	Night.
13	21 37	18 11	Day breaks at	5 33	
14	22 38	18 27	Twilight ends at	6 26	
15	23 38	18 42	Aldebaran south at	1 0	Morn.
16	24 39	18 57	Length of night	15 14	
F	25 39	19 12			
18	26 40	19 26			
19	27 41	19 40	♂ rises at	1 44	Morn.
20	28 41	19 53	♀ rises at	4 56	Morn.
21	29 42	20 6	☉ enters ♐ at	7 8	Night.
22	0 ♐ 43	20 19	♃ sets at	4 43	Aftern.
23	1 43	20 32	♄ sets at	5 49	Morn.
F	2 44	20 44			
25	3 45	20 55			
26	4 46	21 7			
27	5 47	21 17	☿ greatest elongation,		
28	6 47	21 28	and sets 1 h. after the sun.		
29	7 48	21 38	♄ south at	10 9	Night.
30	8 49	21 48			

Lunations

New moon the 3d day, at 11 morning.
First quarter the 10th day, at 8 morning.
Full moon the 17th day, at 11 morning.
Last quarter the 25th day, at 1 afternoon.

M D	Jupiter rises	Venus rises
1	8 m 18	1 m 29
7	7 51	1 22
13	7 31	1 14
19	7 10	1 5
25	6 49	☌ 56

M D	W D	Holy-Days ☉ rises & sets	Moon's Longit.	Moon's Declin.	☽ rises & sets	Aspects and Weather
1	F	Advent Sund.	15 ♏ 48	11 s 57	5 m 11	
2	M		29 0	15 4	6 22	Seasonable
3	T	☉ rises 7 59	12 ♐ 30	17 28	☽ sets	and whole-
4	W		26 17	18 54	5 a 25	☌ ☉ ♃
5	T	☉ sets 3 59	10 ♑ 15	19 15	6 23	some
6	F	Nicholas	24 21	18 23	7 28	winds.
7	S		8 ♒ 30	16 23	8 39	
8	F	2 Sund. Adv.	22 40	13 23	9 55	Concep. V. M.
9	M		6 ♓ 49	9 37	11 12	
10	T		20 54	5 18	morn	Temperate
11	W	☉ rises 8 5	4 ♈ 56	0 44	0 28	and fine.
12	T		18 54	3 n 51	1 42	
13	F	Lucy	2 ♉ 47	8 12	2 56	
14	S		16 32	12 4	4 10	Now more
15	F	3 Sund. Adv.	0 ♊ 8	15 16	5 23	
16	M	Cam. T. ends.	13 32	17 36	6 30	O. Sap. ☌ ☉ ☿
17	T	Oxf. T. ends.	26 41	18 57	☽ rises	windy, with
18	W	Ember Week	9 ♋ 34	19 18	5 a 19	
19	T		22 11	18 40	6 17	rain or fleet.
20	F	☉ sets 3 52	4 ♌ 31	17 9	7 16	
21	S	St. Thomas	16 38	14 53	8 18	Shorteſt day.
22	F	4 Sund. Adv.	28 34	12 0	9 21	Cold winds,
23	M	☉ rises 8 8	10 ♍ 23	8 41	10 23	
24	T		22 10	5 1	11 26	☌ ♃ ☿
25	W	Chriſtmas-d.	4 ♎ 2	1 9	morn	with froſt
26	T	St. Stephen	16 2	2 s 48	0 28	✶ ♂ ♀
27	F	St. John	28 17	6 43	1 33	☌ ♀ ☿
28	S	Innocents	10 ♏ 50	10 26	2 38	☌ ♃ ♀
29	F	Sun. aft. Chr.	23 46	13 n 46	3 46	
30	M	☉ sets 3 55	7 ♐ 6	16 31	4 54	and ſnow.
31	T	Silveſter	20 51	18 26	6 2	

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	10 ♑ 15	12 s 28	12 ♐ 15	21 s 48	25 ♈ 22	0 n 37	14 ♍ 1	14 s 36
7	9 53	12 22	13 36	21 59	5 40	0 s 40	21 31	16 49
13	9 34	12 17	14 57	22 9	8 55	1 55	29 1	18 47
19	9 18	12 14	16 18	22 18	12 5	3 7	6 ♐ 31	20 27
25	9 6	12 12	17 38	22 27	15 12	4 16	14 2	21 45

D	Sun's Longit.	Sun's Declin.	Observations		
F	9 ♐ 50	21 s 57	♃ is hid under the sun-beams, then becomes oriental, and a morning star.		
2	10 51	22 6			
3	11 52	22 14			
4	12 53	22 22			
5	13 54	22 30	☿ sets at	5 0	Aftern.
6	14 55	22 37	☿ stationary.		
7	15 56	22 43	♄ south at	9 33	Night.
F	16 57	22 49	♂ rises at	1 22	Morn.
9	17 58	22 55	♀ rises at	5 50	Morn.
10	18 59	23 0			
11	20 0	23 5			
12	21 2	23 10	Day is decreased	8 45	
13	22 3	23 13	Length of day	7 48	
14	23 4	23 17	Twilight ends at	6 0	
F	24 5	23 20	☽ eclipses Aldebaran at	12 12	Night.
16	25 6	23 22			
17	26 7	23 24			
18	27 8	23 26			
19	28 9	23 27	Day breaks at	6 0	
20	29 10	23 28	Durat. of twilight	2 8	
21	0 ♑ 12	23 28	☉ enters ♑ at	7 29	Morn.
F	1 13	23 27	Seven Stars south at	9 30	Night.
23	2 14	23 27	♄ south at	8 19	Night.
24	3 15	23 25	♂ rises at	1 0	Morn.
25	4 16	23 24	♀ rises at	6 30	Morn.
26	5 17	23 21			
27	6 19	23 19	☿ stationary.		
28	7 20	23 16	☿ rises at	6 16	Morn.
F	8 21	23 12			
30	9 22	23 8	♃ rises at	6 28	Morn.
31	10 23	23 3	Aldebaran south at	9 38	Night.

The Eclipses of Jupiter's

January				February				March				April			
Immersions				Immersions				Immersions				Immersions			
d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.
1	22	4	51	2*	18	24	57	1	7	31	36	2	4	11	29
3	16	32	22	4	12	53	4	3	2	0	21	3	22	40	27
5	10	59	54	6	7	21	18	4	20	29	6	5	17	9	23
7	5	2	28	8	1	49	33	6*	14	57	53	7	11	38	19
8	23	55	3	9	20	17	50	8	9	26	42	9	6	7	1.
10*	18	22	39	11	14	46	10	10	3	55	32	11	0	36	13
12	12	50	19	13	9	14	32	11	22	24	23	12	19	5	8
14	7	17	57	15	3	42	58	13*	16	53	14	14*	13	34	3
16	1	45	39	16	22	11	24	15	11	22	6	16	8	2	58
17	20	13	23	18*	16	39	54	17	5	51	0	18	2	31	52
19	14	41	11	20	11	8	26	19	0	19	55	19	21	0	46
21	9	8	59	22	5	37	0	20	18	48	51	21*	15	29	39
23	3	36	52	24	0	5	36	22*	13	17	47	23	9	58	31
24	22	4	46	25	18	34	15	24	7	46	44	25	4	27	21
26*	16	32	42	27	13	2	55	26	2	15	42	26	22	56	9
28	11	0	42					27	20	44	40	28	17	24	56
30	5	29	45					29*	15	13	36	30*	11	53	43
31	23	56	51					31	9	42	32				

May				June				July				August			
Emersions				Emersions				Emersions				Emersions			
2	6	22	29	1*	10	36	7	1	12	38	34	2*	9	14	33
4	0	51	12	3	5	4	32	3	7	7	2	4	3	43	30
5	19	19	54	4	23	32	56	5	1	35	31	5	22	12	30
7*	13	4	36	6	18	1	18	6	20	4	0	7	16	41	30
9	8	17	18	8*	12	29	42	8	14	32	30	9	11	10	33
11	2	45	57	10	6	58	3	10	9	1	1	11	5	39	37
12	21	14	34	12	1	26	25	12	3	29	35	13	0	8	41
14	15	43	10	13	19	54	4	13	21	58	10	14	18	37	47
16*	10	11	43	15	14	23	6	15	16	26	47	16	13	6	56
Emersions				17	8	51	26	17*	10	55	26	18	7	36	6
18	6	48	20	19	3	19	47	19	5	24	7	20	2	5	18
20	1	16	54	20	21	48	8	20	23	52	49	21	20	34	31
21	19	45	23	22	16	16	31	22	18	21	32	23	15	3	45
23*	14	13	54	24*	10	44	55	24	12	50	18	25	9	33	0
25	8	42	24	26	5	13	19	26	7	19	5	27	4	2	16
27	3	10	53	27	23	41	43	28	1	47	54	28	22	31	34
28	21	39	19	29	18	10	9	29	20	16	45	30	17	0	53
0	16	7	41					31	14	45	38				

First Satellite for 1793.

September				October				November	December
Emerſions				Emerſions					
d.	h.	m	s.	d.	h.	m.	s.		
1	11	30	13	1	13	48	46		
3	5	59	33	3	8	18	0		
5	0	28	52	5	2	47	12	The Satellites of	The Eclipſes of
6	18	58	13	6	21	16	22	*Jupiter* will not	*Jupiter*'s Satel-
8	13	27	34	8	15	45	31	be viſible this	lites will not be
10	7	56	56	10	10	14	39	Month, *Jupiter*	viſible this
12	2	26	17	12	4	43	45	being too near	Month, *Jupi-*
13	20	55	39	13	23	12	48	the Sun.	*ter* being too
15	15	24	59	15	17	41	50		near the Sun.
17	9	54	20	17	12	10	49		
19	4	23	40	19	6	39	45		
20	22	53	1	21	1	8	39		
22	17	22	21	22	19	37	31		
24	11	51	40	24	14	6	21		
26	6	20	59	26	8	35	8		
28	0	50	16	28	3	3	53		
29	19	19	32	29	21	32	36		
				31	16	1	17		

N. B. Thoſe marked with an aſteriſk are viſible at Greenwich.

To illuſtrate the Uſe of the preceding Table by an Example.

Suppoſe on the 26th Day of September this Year, the Time of the Immerſion of Jupiter's firſt Satellite be obſerved by a Teleſcope in an unknown Meridian, to happen at 8 h. 9 min. 19 ſeconds; I find by the Table, that the Time of this Immerſion will happen at the Britiſh Obſervatory at 6 h. 20 min. 59 ſec. the ſame Day: The Difference of the Times is 1 h. 48 min. 20 ſec. which being converted into Degrees and Minutes of the Equator, at the Rate of 15 Degrees per Hour, will make 27 deg. 5 min. the Longitude of the Place of Obſervation to the Eaſt; becauſe the Time is more than that at the Britiſh Obſervatory.

Operation.			
Immerſion obſerved		8h	9m 19s
Immerſion at *Greenwich*		6	20 59
The Difference of Time		1	48 20
Anſwering to		27°	5′ 0″

Days	Long.	Declin.	Long.	Declin.	Long.	Declin.
	January		February		March	
1	11 ♑ 44	20 s 18	19 ♑ 43	22 s 14	2 ♐ 53	12 s 25
4	7 49	20 3	23 41	22 0	8 20	10 20
7	4 48	20 3	27 51	21 34	13 54	8 3
10	3 12	20 15	2 ♒ 10	20 57	19 39	5 35
13	2 D 59	20 37	6 38	20 8	25 32	2 57
16	3 57	21 3	11 15	19 8	1 ♈ 31	0 11
19	5 49	21 29	16 0	17 55	7 32	2 n 39
22	8 20	21 52	20 54	16 31	13 29	5 29
25	11 21	22 8	25 57	14 54	19 11	8 1.
28	14 45	22 17	1 ♓ 9	13 5	24 29	10 46
	April		May		June	
1	0 ♉ 36	13 n 39	2 ♉ 4	11 n 32	18 ♉ 48	14 n 48
4	4 18	15 22	0 49	10 21	23 18	16 23
7	7 9	16 36	0 D 12	9 30	28 13	18 0
10	9 1	17 24	0 16	9 2	3 ♊ 31	19 36
13	9 57	17 41	1 0	8 55	9 12	21 7
16	9 R 57	17 28	2 22	9 8	15 13	22 2
19	9 8	16 48	4 21	9 41	21 33	23 33
22	7 39	15 44	6 54	10 32	28 2	24 18
25	5 46	14 23	9 57	11 37	4 ♋ 35	24 38
28	3 49	12 56	13 27	12 52	11 5	24 34
	July		August		September	
1	17 25	24 n 5	6 ♍ 47	7 n 59	7 ♍ 7	5 n 3
4	23 31	23 15	9 46	6 22	4 38	7 13
7	29 22	22 6	12 16	4 53	3 4	8 41
10	4 ♌ 55	20 41	14 15	3 36	2 D 44	9 41
13	10 12	19 11	15 40	2 35	3 47	10 8
16	15 11	17 30	16 21	1 53	6 9	9 56
19	19 54	15 44	16 R 14	1 32	9 38	9 9
22	24 19	13 55	15 15	1 41	13 56	7 50
25	28 26	12 6	13 25	2 19	18 48	6 8
28	2 ♎ 14	10 18	10 53	3 27	23 59	4 8
	October		November		December	
1	29 ♎ 18	1 n 58	20 ♏ 50	19 s 5	0 ♑ 4	25 s 27
4	4 ♏ 39	0 s 18	25 21	20 33	2 39	24 57
7	9 0	2 35	29 54	21 51	3 R 17	24 D 17
10	15 57	4 52	4 ♐ 20	22 58	2 19	23 27
13	20 20	7 6	8 41	23 56	29 ♐ 40	22 28
16	25 23	9 16	12 57	24 43	25 49	21 27
19	0 ♐ 19	11 21	17 6	25 17	21 47	20 33
22	5 11	13 20	21 4	25 39	18 43	19 59
25	9 58	15 12	24 46	25 48	17 9	19 47
28	14 40	16 58	28 5	25 45	17 D 8	20 0

Equation of Time to the nearest Minute.

Day	Jan sub	Feb sub	Mar sub	Apr sub	May add	June add	July sub	Aug sub	Sept add	Oct add	Nov add	Dec add	Day
	min	m	m	m	m	m	m	m	m	m	m	m	
1	4	14	12	4	3	3	3	6	0	11	16	10	1
2	4	14	12	3	3	2	4	6	1	11	16	10	2
3	5	14	12	3	3	2	4	6	1	11	16	9	3
4	5	14	12	3	4	2	4	6	1	11	16	9	4
5	6	14	12	2	4	2	4	6	2	12	16	9	5
6	6	15	11	2	4	2	4	5	2	12	16	8	6
7	7	15	11	2	4	1	5	5	2	12	16	8	7
8	7	15	11	2	4	1	5	5	3	13	16	7	8
9	8	15	11	1	4	1	5	5	3	13	16	7	9
10	8	15	10	1	4	1	5	5	3	13	16	6	10
11	8	15	10	1	4	1	5	5	4	13	16	6	11
12	9	15	10	1	4	0	5	5	4	14	15	5	12
13	9	15	9	0	4	0	5	4	4	14	15	5	13
14	10	15	9	0	4	0	5	4	5	14	15	4	14
15	10	15	9	add	4	sub	6	4	5	14	15	4	15
16	10	14	9	0	4	0	6	4	6	15	15	4	16
17	11	14	8	1	4	1	6	4	6	15	15	3	17
18	11	14	8	1	4	1	6	3	6	15	14	3	18
19	11	14	8	1	4	1	6	3	7	15	14	2	19
20	12	14	7	1	4	1	6	3	7	15	14	2	20
21	12	14	7	2	4	1	6	3	7	15	14	1	21
22	12	14	7	2	4	2	6	2	8	16	13	1	22
23	12	14	6	2	4	2	6	2	8	16	13	0	23
24	13	14	6	2	4	2	6	2	8	16	13	sub	24
25	13	13	6	2	3	2	6	2	9	16	12	1	25
26	13	13	6	3	3	2	6	1	9	16	12	1	26
27	13	13	5	3	3	3	6	1	9	16	12	2	27
28	13	13	5	3	3	3	6	1	10	16	11	2	28
29	14		5	3	3	3	6	0	10	16	11	3	29
30	14		4	3	3	3	6	0	10	16	11	3	30
31	14		4		3		6	add		16		4	31

If the equal or clock time be given, add or subtract the tabular numbers to or from it, as directed in the table; the sum or difference will be the apparent or solar time. But do the contrary to reduce the apparent to equal time.

A Compendious Chronology of memorable Things since the Creation to this present Year.

A.P.J.	*before Christ.*		*Years since.*
710	4004	The Creation of the World	5797
1766	2948	*Noah* born	4741
2366	2348	*Noah*'s Flood began	4141
2481	2233	The *Babylonian* Monarchy established	4026
2718	1996	*Abraham* born	3789
2986	1728	*Joseph* sold into *Egypt*	3521
3143	1571	*Moses* born	3364
3223	1491	The *Israelites* Departure out of *Egypt*	3284
3530	1184	*Troy* taken and destroyed by the *Greeks*	2977
3710	1004	*Solomon*'s Temple built and dedicated	2796
4126	588	*Jerusalem* and the Temple destroyed	2381
4176	538	*Daniel* delivered from the Den of Lions	2331
4198	516	The Temple of *Jerusalem* rebuilt	2309
4391	323	The Death of *Alexander the Great*	2116
4710	4	The true Year of *Christ*'s Birth	1797
4714	0	The vulgar Year of *Christ*'s Birth	1793
A.D			
33		The Passion and Resurrection of *Jesus Christ*	1760
70		*Jerusalem* and the Temple destroyed by *Titus*	1723
100		St. *John*, the last of the Apostles, dies *Dec.* 20.	1693
313		Christianity triumphs under *Constantine*	1480
476		*Augustulus*, the last *Roman* Emperor, deposed	1317
606		The wicked *Phocas* makes Pope *Boniface* Head of the Church	1187
608		*Mahomet* broaches his Imposture at *Mecca*	1185
872		*Italy* and *Rome* plundered by the *Saracens*	921
1012		*Swain* King of *Denmark* conquers *England*	781
1066		*William* Duke of *Normandy* conquers *England*	727
1110		Arts and Sciences taught in *Cambridge*	683
1119		The first War between the *French* and *English*	574
1300		The Mariners Compass invented	493
1330		The *Canaries* discovered by an *English* Ship	463
1380		Gunpowder and the Use of Guns first found out	413
1453		*Constantinople* taken from the *Christians*	340

A.D.		Years since.
1463	The *Perſians* conquered by *Tamerlane*	330
1500	*Rome* plundered by the Duke of *Bourbon*	293
1517	*Martin Luther* firſt diſputed againſt Popery	275
1536	*England* ſeparated from the Church of *Rome*	257
1588	The *Spaniſh Armada* defeated by the *Engliſh*	203
1603	Q. *Eliz.* dies *March* 24, and K. *James* I. began	190
1604	Died of the Plague in *London*, in 2 Years, 68,596	189
1605	Gunpowder Treaſon, *Nov.* 5.	188
1613	The New River Water brought to *London*	180
1618	The excellent Sir *Walter Raleigh* beheaded	175
1625	K. *James* I. died, King *Charles* I. began, *Mar.* 27.	168
1625	35,417 Perſons died of the Plague in *London*	168
1641	The cruel *Iriſh* Maſſacre began, *October* 23.	152
1643	*Burleigh Houſe* ſtormed by *Cromwel*, *July* 24.	150
1649	K. *Charles* I. beheaded, *January* 30.	144
1658	*Oliver Cromwell* died.	135
1660	K. *Charles* II. reſtored, *May* 29.	133
1665	68,586 Perſons died of the Plague in *London*	128
1666	*London* burnt, and a great Sea-Fight with the *Dutch*	127
1672	War declared againſt the *Dutch*, *March* 17.	121
1674	A great Snow for 11 Days together	119
1675	The Town of *Northampton* burnt, *Sept.* 3.	118
1680	A great and ſplendid Comet appeared	113
1684	The great Froſt that held 13 Weeks	109
1685	K. *Charles* II. died, *Feb.* 6. and K. *James* II. began	108
1685	The Duke of *Monmouth* beheaded, *July* 15.	108
1688	Seven Biſhops ſent to the *Tower*, *June* 8.	105
1688	K. *James* II. abdicated, *December* 12.	105
1689	K. *William* and Q. *Mary* crowned, *April* 11.	104
1692	The *French* Fleet entirely defeated by the *Engliſh*	101
1698	*Whitehall* Palace deſtroyed by Fire.	95
1702	K. *William* died, *March* 8, and Q. *Anne* began	91
1702	Q. *Anne* proclaimed War againſt *France*, *May* 4.	91
1703	A great and terrible Wind, *Nov.* 26 and 27.	90
1704	*Gibraltar* taken by the *Engliſh*	89
1707	*England* and *Scotland* united, *May* 1.	86
1710	Riots and great Diſturbances in *England*.	83
1714	Q. *Anne* died *Auguſt* 1. and K. *George* I. began	79

A.D.		Years since.
1715	A Rebellion in *Scotland* and *Lancaſhire* ſuppreſſed	78
1716	A great Froſt in the Beginning of this Year	77
1718	The *Spaniſh* Fleet deſtroyed by Admiral *Byng*.	75
1719	A ſurprizing Meteor ſeen, *March* 19, at 8 at Night	74
1719	Mr. *Flamſteed*, a celebrated Aſtronomer died *Dec.* 31.	74
1727	The incomparable Sir *Iſaac Newton*, died *Mar.* 20.	66
1727	K. *George* I. died, *June* 11, and K. *George* II. began	66
1736	The Prince and Princeſs of *Wales* married, *Ap.* 27.	57
1739	Letters of Marque publiſhed in *London* againſt the *Spaniards*, *July* 16.	54
1739	War declared by *Great Britain* againſt *Spain*.	54
1739	*Porto-Bello* taken and deſtroyed by Admiral *Vernon*.	54
1740	A very ſevere Froſt from *Dec.* 25, to *Feb.* 27.	53
1742	A Comet appeared from *Feb.* 18, to *March* 14.	51
1743	A ſplendid Comet appeared from *December* 23, to *February* 18, in ♈	50
1744	*March* 4, *France* declared War againſt *England*; and *March* 31, *England* declared War againſt *France*.	49
1745	*Cape Breton* taken from the *French*, *June* 16.	48
1746	The *Scotch* Rebels defeated by the Duke of *Cumberland*, at *Culloden*, near *Inverneſs*, *April* 16.	47
1748	A General Peace ſigned *October* 7.	45
1749	*Cape Breton* reſtored to the *French*.	44
1750	The *Britiſh* Fiſhery eſtabliſhed.	43
1751	The Prince of *Wales* died *March* 20.	42
1752	The Date and Calendar altered.	41
1755	*Liſbon* deſtroyed by an Earthquake, *Nov.* 1.	38
1756	*England* declared War againſt *France*, *May* 18.	37
1756	The Iſland *Minorca* taken by the *French*, *June* 27.	37
1757	Count *Brown* defeated by the King of *Pruſſia* near *Prague*, *May* 6.	36
1757	The King of *Pruſſia* defeated by Count *Daun* at *Collin*, *June* 18.	36
1758	The *French* defeat at *Crevelt* by P. *Ferdinand*, *June* 23	35
1758	Lord *Howe* ſlain, *July* 6, and Gen. *Abercrombie* repulſed at *Ticonderoga*, *July* 8.	35
1758	*Cape Breton* taken by the *Engliſh*, *July* 26.	35

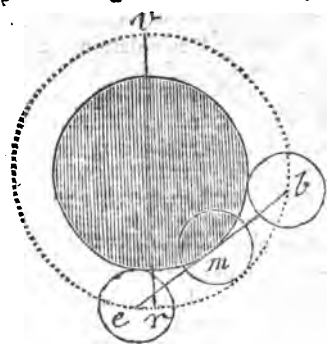
A.D.		Years since.
1758	The *Ruſſians* defeated at *Zorndorff* by the King of *Pruſſia*, *Sept.* 25.	35
1759	The Iſland of *Guadalupe* taken by Gen. *Barrington* and Commodore *Moore*, *May* 1.	34
1759	The *French* defeat, at *Minden* by P. *Ferdinand*, *Aug.* 1.	34
1759	The King of *Pruſſia* defeated at *Cunnerſdorff* by the Count *de Soltikoff*, *Auguſt* 12.	34
1759	Gen. *Wolfe* ſlain, though victorious, *Sept.* 13, and *Quebec* taken *Sept.* 18, by Gen. *Townſhend*.	34
1760	*Montreal* taken by Gen. *Amherſt*, *Sept.* 8.	33
1760	K. *Geo.* II. died *Oct.* 25, and *Geo.* III. ſucceeded.	33
1761	*Pondicherry* taken by Col. *Coote*, *Jan.* 15.	32
1761	K. *George* III. married Q. *Charlotte*, *Sept.* 8.	32
1761	K. *George* III. crowned, *Sept.* 22.	32
1762	The Iſland of *Martinico* taken by Gen. *Monckton* and Adm. *Rodney*, *Feb.* 14.	31
1762	*George* Prince of *Wales* born, *Auguſt* 12.	31
1762	The *Havannah* taken by Lord *Albemarle* and Sir *George Pocock*, *Auguſt* 12.	31
1763	A general Peace in all *Europe*.	30
1763	Pr. *Frederick*, Biſhop of *Oſnaburgh*, born *Aug.* 16.	30
1765	Prince *William-Henry* born *Auguſt* 21.	28
1766	Princeſs *Charlotte-Auguſta-Matilda* born *Sept.* 29.	27
1767	Prince *Edward* born *Nov.* 2.	26
1768	Princeſs *Auguſta-Sophia* born *Nov.* 8.	25
1770	Princeſs *Elizabeth* born *May* 22.	23
1771	Prince *Erneſt-Auguſtus* born *June* 5.	22
1772	*Swedes* reſign their Liberties to the King.	21
1773	Prince *Auguſtus-Frederick* born *Jan.* 27.	20
1773	The Light Gold recoined.	20
1774	Prince *Adolphus Frederick* born *Feb.* 24.	19
1775	War commenced againſt the *North-Americans*.	18
1776	Princeſs *Mary* born *April* 25.	17
1776	The *Americans* declare themſelves independent.	17
1777	Princeſs *Sophia* born *Nov.* 3.	16
1778	The *French* ſign a Treaty with the *Americans*.	15
1778	War begun againſt the *French*.	15
1779	War commenced againſt the *Spaniards*.	14
1780	War againſt the *Dutch* begun.	13
1783	A general Peace.	10
1783	Princeſs *Amelia* born	10

A.D.		Years since.
1783	New Volcanic Iſland appeared near *Iceland*	10
1783	More than 40,000 People periſh by Earthquakes in *Italy*	10
1783	Peace with *France*, *Spain*, and *America*, concluded *Sept.* 3.	10
1784	A general Peace concluded, *July* 2.	9
1784	Seventeen Diſtricts in *Iceland* deſolated, by a ſubterraneous Fire	9
1786	Commercial Treaty with *France* ſigned *Sept.* 26.	7
1788	His Majeſty *George* III. ſeized with a dangerous Diſorder.	5
1789	*April* 23, the King, Royal Family, &c. went in State to St. *Paul's*, being a Day of General Thankſgiving for His Majeſty's Recovery	4
1789	Revolution in *France*, the *Baſtile* demoliſhed, and arbitrary Government deſtroyed	4
1790	*Joſeph* II. Emperor of *Germany* died *Feb.* 20.	3
1790	*Henry Frederick*, Duke of *Cumberland*, died *Sept.* 18.	3
1792	*Leopold*, Emperor of *Germany*, died *March* 1.	1
1792	*Guſtavus*, King of *Sweden*, ſhot by one of his ſubjects, *March* 16.	1
	——— ———, died *March* 29.	1
1792	War declared by *France* againſt the King of *Bohemia* and *Hungary*, *April*.	1
1792	The *French* Monarchy altered to a Commonwealth, *Sept.*	1

An account of the Eclipses, and some other Astronomical Appearances in the Year 1793.

TWICE this year will the sun's radiant disk be eclipsed by the interposition of the moon's dark body; and twice also will the moon be in part deprived of her borrowed light, by this earthly globe passing between the sun and her.

The first is a partial eclipse of the moon, and visible to us if clouds interpose not; it happens on Monday the 25th day of February, at night. At the middle of this eclipse, the moon will be vertical in 7 deg. 59 min. of north latitude, and 18 deg. 42 min. of east longitude from Greenwich Observatory. Consequently this eclipse will be visible quite through all Africa and Europe, and the greatest part of Asia; but to the inhabitants of America, only part will be visible, as the moon will rise eclipsed with them. The time and manner of appearance, with respect to us in Great Britain, may be expected to agree with the following exact type and calculation.



Apparent time of the

	d.	h.	m.
Beginning, Feb.	25	9	24
Middle		10	45
End of eclipse		12	6

Digits eclipsed 6° 0′ 0″

v, r, a vertical circle; b, m, e, the way of the moon.

The second is an invisible eclipse of the sun, on Tuesday the 12th day of March; the ecliptic conjunction happens at 57 min. after 5 in the morning, when the sun and moon's longitude is in ♓ 22° 10′. The moon's true latitude is 39′ 40″ S. The sun will be centrally eclipsed on the meridian at our 28 min. after 5 in the morning, in longitude 98 deg. east from Greenwich, and latitude 46 deg. 30 min. south. This eclipse will be total, but not with continuance, the apparent diameters of the sun and moon being nearly equal. This eclipse will be visible to New Holland,

and all along the eaſtern coaſt thereof, called New South Wales.

The third is another partial eclipſe of the moon, on Wedneſday the 21ſt day of Auguſt. It begins at 29 minutes after 1 in the afternoon; and the eclipſe will be quite over at 17 min. after 4 o'clock, app. time. But as the moon will not riſe with us until near 7 o'clock, this eclipſe of courſe muſt be inviſible. Digits eclipſed are 8 and 41 min. on the moon's lower limb. At the middle of this eclipſe (which is at 53 min. after 2) the moon will be vertical to Arnheim's land, on the northern coaſt of New Holland, about 100 leagues to the ſouth-weſt of Endeavour Straits, under 11 deg. 14 min. ſouth latitude, 136 deg. 40 min. eaſt of Greenwich. This eclipſe will be viſible to all the unknown ſouthern parts of the world, quite round the Pole itſelf; alſo to New Zealand, New Holland, and all along the eaſtern coaſt thereof, called New South Wales, which is of 2000 miles extent.

The fourth and laſt of theſe eclipſes is a great and viſible eclipſe of the ſun, on Thurſday the 5th day of September (near noon) according to the following type and calculations; and is the moſt eminent and remarkable eclipſe of that ſort, that will be ſeen in England for a long time; and is the greateſt we have had ſince that on the 1ſt of April, 1764. The centre of the lunar penumbra in this eclipſe, after hovering in the air ſome little while, over the great fiſhing bank of Newfoundland; it lands upon our globe near Hudſon's Straits, in the northern parts of Hudſon's Bay; from thence it makes its way to the ſouthern parts of Greenland (leaving Iceland a little to the north) over the Weſtern Iſlands; from thence it traverſes over the northern parts of Scotland, over Denmark, Sweden, and Poland, towards the Caſpian Sea, and the northern parts of Perſia, where it enters the Mogul empire, and there the central eclipſe quits this globe with the ſetting ſun; the whole penumbra leaves the earth, and the whole eclipſe will be ſeen to end as the ſun ſets, and this will happen in the Indian Sea, a little more than 300 miles from the ſouthern coaſt of Arabia, near the iſland of Socotra.

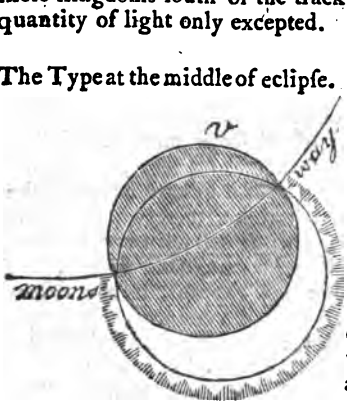
The moon's apparent diameter at the time of this eclipſe will be leſs than the apparent diameter of the ſun; therefore, this eclipſe, where central, will not be total, but the ſpectators all along the central track, will be entertained with a beauti-

ful

ful ring of light quite round the ſun, of near half a digit in breadth. In the ſouthern parts of this kingdom, the ſun will be eclipſed about nine digits and a half, but in more northern ſituations the defect is greater; inſomuch, that in the northern parts of Scotland, where it is annular, it amounts to 11 digits and 34 minutes, very near.

The following delineation or type, adapted to Greenwich, near London, may, without ſenſible error, ſerve all parts of theſe kingdoms ſouth of the track of annular appearance, the quantity of light only excepted.

The Type at the middle of eclipſe.



Apparent time at Greenwich.

	d.	h.	m.	
Beg. Sep.	5	9	37	Morn.
Middle		11	9	
End of eclipſe	12	44		
Duration		3	7	
Digits eclipſed	9°	28′		

Note,—v, repreſents the ſun's uppermoſt point; in the curve, *moon's way*, ſhews the way of the moon over the ſun during the eclipſe, which will begin on the right-hand, and paſs to the left, where the eclipſe ends.

Other Cœleſtial Appearances.

The moſt remarkable appearances, conjunctions, and occultations of the planets and fixed ſtars this year, are the following:

1. On the 22d day of January, at 32 min. after 2 in the morning, the moon's eaſtern limb covers the famous fixed ſtar Aldebaran: the ſtar will continue behind the moon for the ſpace of 25 min. when Aldebaran will again become viſible on the weſt ſide of the moon, which is at 57 min. after 2 o'clock.

2. On Tueſday Feb 12, in the morning, the moon will eclipſe the planet Mars; the immerſion will be at 48 min. after 6; and the emerſion, or the ſtar will appear again at 38 min. after 7 o'clock; Mars will be then about 9 min. of a degree north of the moon's centre. It will be very proper to obſerve this occultation with a ſmall teleſcope of ſome ſort.

3. There

3. There will be another viſible occultation of Aldebaran by the moon, on Tueſday the 22d of October, in the morning. The immerſion will be at 42 min. after 6; and the emerſion will be at 30 min. after 7 o'clock; when the ſtar will be advanced 11 min. and 30 ſeconds north of the centre of the moon. To obſerve this with any advantage, a ſmall teleſcope will be proper.

4. The laſt of theſe tranſits I ſhall mention, is a very notable one of Aldebaran, on Sunday the 15th of December, or rather on Monday morning the 16th. The ſtar will be firſt hid by the moon, and the immerſion takes place at 12 min. after 12; and the ſtar will firſt appear again, and the emerſion happens at 24 min. after 1 o'clock in the morning. The ſtar will paſs about 2 min. north of the moon's centre; and as the moon will be near the full, ſome ſort of teleſcope muſt be uſed to obſerve this occultation to any advantage.

5. Any curious perſon that would wiſh to have a view of the Georgian Planet through their teleſcopes, there will be a fine opportunity of finding this ſtar, when it will be in conjunction, as ſeen from the earth, with Regulus, a notable fixed ſtar of the firſt magnitude; this conjunction happens, by my calculations, on the 4th day of October, in the morning, when they will riſe together about 2 o'clock that morning; at which time the difference of their latitudes will be only 14 minutes, the new planet being only ſo much to the north of Regulus. The new planet is very ſlow in motion, ſo that they may be ſeen near together for ſeveral days, both before and after the 4th of October, what is alſo remarkable, the planet Mars alſo comes in conjunction (as ſeen from the earth) with Regulus, on the 1ſt of October, but will be about 51 min. in latitude more to the north. Mars will alſo paſs by the Georgian Planet, on the ſame day, but with 36 min. of latitude more to the north; Mars moves on very faſt to the eaſtward, and ſoon leaves both Regulus and the Georgian Planet to the weſt of him.

6. The nimble planet Mercury is the leaſt in our ſyſtem, and is at all times ſo near the ſun, that a ſight of him can very rarely be obtained, though ſeveral ingenious perſons, deſirous of his acquaintance, ſeek diligently to find him, but commonly in vain, and often ſo, becauſe they are unacquainted with the times when that fickle planet receives terreſtrial viſitants, which he only does (except in ſome rare caſes) when he

he makes his greateſt excurſions from the preſence of his Royal Maſter. I will here ſet down when he will be in company with ſome other of his fellow planets, they will, like good guides, conduct us to the reſidence of our celeſtial vagrant.

On the ſecond and third days of April Saturn is with Mercury, they may be ſeen together in the weſt for near 2 hours after the ſun is ſet; Mercury appearing about 4 degrees more to the north, and will ſet after Saturn 20 minutes at leaſt. Mercury will ſet late for ſeveral nights together, therefore will afford a fine opportunity of ſeeing him. Mercury may again be ſeen on the 23d and 24th days of May, from 22 min. paſt 3 in the morning till ſun riſe. when Saturn will appear only about 1 degree in latititude more to the north. There will be an opportunity of ſeeing Mercury from the 25th of July to the 7th day of Auguſt, when Mercury may be ſeen in the weſt every night after ſun ſet, when the air is clear, as he will ſet near an hour after the ſun. The laſt week in November Mercury will ſet near an hour after the ſun; therefore may be ſeen in the weſt after the ſun is ſet, by ſuch as have a mind to look for him.

Obſervations upon the Four Quarters of the Year, and upon the influence of the Planets therein.

Of the Spring.—This moſt delightful and charming ſeaſon begins when the ſun enters into the equinoctial ſign Aries, which this year is on Wedneſday the 20th day of March, at 8 minutes after three in the morning, and continues during the ſun's tranſit through the three northern ſigns Aries, Taurus, and Gemini. The ſun now leaves the inhabitants of the ſouthern hemiſphere, to revive and cheriſh with his friendly beams thoſe of the northern. Man need not now ſeek the converſation of treacherous company, or the baneful exhileration of a tavern ſociety to divert his melancholy, it may be much better done in contemplating the beautiful and harmleſs pieces of Nature's furniture; theſe curious emblems of the ſpring are void of deceit; they are innocent ſyrens, though they may raviſh the ſenſes, they will tempt none to deſtruction, but charm all mankind with their mellifluous charms.

A ſcheme

A ſcheme of the face of the heavens at the vernal equinox.

The influence of the celeſtial powers will fall, as appears by the above ſcheme, on Swedeland, Ruſſia, Valachia, Piedmont, Bavaria, Ethiopia, part of Perſia, and Ireland, and in great part of the French dominions, and ſeveral other parts of the world, where, if peace be not already concluded, there is reaſon to ſuſpect the effuſion of more human blood; and, to be plain, there ſeems a likelihood for it, becauſe of great diviſions in the councils of thoſe countries concerned, and no ſmall debates will ariſe about the clergy and religious matters, beſides ſome remarkable alterations in ſome parts of the Chriſtian world. Our kingdom in general is like to be free both in church and ſtate, I mean from all violent enemies, though ſome petty differences (or rather diſcontents) may break forth now and then; but I would have theſe diſturbers of the peace of the Engliſh nation take care, how they offend a gracious and good king, and lawful government.

May

May peace and plenty ſtill inveſt the nation,
And ev'ry man prove honeſt in his ſtation,
Which would procure great bleſſings from above,
To all mankind that live in peace and love;
By which doth follow joy and true content,
Which none e'er did, or ever need repent.

The Summer Quarter begins on the 21ſt day of June, at 10 min. paſt 1 in the morning, and continues during the ſun's tranſit through the other three northern ſigns, Cancer, Leo, and Virgo. I aſſure, you that the poſitions of the planets at this time ſignify many religious debates and controverſies, commotions, wars, ſeditions, alterations of laws and cuſtoms, and ſubverſions of rights and privileges, in all which calamities ſeveral parts of Europe will be involved

The Autumnal Quarter commences at the ſun's entrance into the equinoctial ſign Libra, which this year is on the 22d day of September, at 58 min. after 2 in the afternoon, and continues whilſt the ſun is paſſing through Libra, Scorpio, and Sagitarius. This is an active and remarkable ingreſs, and juſt before the commencement thereof happens the ſolar eclipſe before treated of, whoſe effects will be very conſpicuous in the ſeveral parts of the ancient Roman Empire.

The Winter Quarter begins on the 21ſt day of December, at 29 min. after 7 in the morning, and continues during the ſun's progreſs throughout the ſigns Capricorn, Aquarius, and Piſces. The malific influences of ſome late oppoſitions and conjunctions of the ſuperior planets, has been ſeverely felt on the continent of Europe already. The affairs thereof are much altered, and the time is approaching which will produce further remarkable alterations.

What long hath lain conceal'd now comes to light,
Likewiſe a ſtar now ſets, which once ſhin'd bright.

SATURN,

(CONTINUED from LAST YEAR.)

SATURN, as we obſerv'd before, is the moſt diſtant planet in our ſyſtem, except the *Georgian Planet*, lately diſcovered by Dr. *Herſchel*. He performs his courſe with no leſs than ſeven attendants, or moons (two of which, viz. the 6th and 7th have

have alſo lately been diſcovered by the above Dr. Herſchel, by his wonderful and powerful teleſcopes) which are not to be ſeen without the help of a very good teleſcope. Beſides theſe attendants, *Saturn* has an ornament peculiar to himſelf, for he is dignified with a vaſt luminous ring (as we juſt mentioned in our laſt) which ſurrounds his middle, and does no where touch his body, but by an exact libration and equipoiſe of all its parts, ſuſtains itſelf like an arch, and (being thus ſuſpended by heaven's geometry), is kept from falling upon his body. Its edge is towards the earth, but inclining about thirty degrees to the plane of the ecliptic, muſt appear to his inhabitants like an immenſe and beautiful arch of light. It keeps parallel to itſelf at all times. The breadth of this ring is computed to be 21,000 miles, and at ſuch a diſtance from the body of Saturn as is equal to its breadth. This ſpace is ſo great between the body of Saturn and his ring, that, in a proper ſituation, we can ſee the heavens and ſtars through the ſame. The purpoſes of this admirable ring ſeems, from its lucid appearance, intended by Providence to ſupply Saturn with light, and make up for the deficiency of the ſun's rays, which muſt loſe much of their power in paſſing through ſuch an immenſe track to this planet. The diſtance of Saturn from the ſun being ten times greater than that of the earth from the ſame.—The ſhadow of this planet has alſo been ſeen thrown on that part of its ring oppoſite to the ſun, which ſhews that luminary ſupplies Saturn with part of its light, and a ſmall ſhare of its influence. Thus much for this wonderful ring of Saturn, which Dr. Herſchel has lately found to be double, and that through the interval of the two rings; he has clearly perceived the ſky. He has meaſured the outer diameter of this ring, and found it to be 156,000 miles!

FINIS.

ΑΤΛΑΣ ΟΥΡΑΝΙΟΣ,

The COELESTIAL ATLAS;

OR, A NEW

EPHEMERIS

For the YEAR of our LORD 1793.

Being the First after

BISSEXTILE, or LEAP-YEAR.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets, the ECLIPSES of the Luminaries, and other remarkable PHÆNOMENA that will happen this Year.

Carefully computed

From the genuine TABLES of Dr. EDMUND HALLEY, those of Professor MAYER, and other the latest and most correct ASTRONOMICAL TABLES.

ALSO

A Compleat ALMANACK, containing the FEASTS and FASTS of the Church of ENGLAND; the Times of the LUNATIONS; the Rising and Setting of the Sun, Moon, and Planets, &c.

Adapted to the

Meridian and Latitude of the Royal Observatory of GREENWICH.

To which are added,

Several useful TABLES: As, a TABLE of the Sun's semi-diurnal Arcs, by which the Times of the Sun's Rising and Setting may be known by Inspection, on every Day in the Year, and in any Part of GREAT-BRITAIN or IRELAND; a TIDE-TABLE, and a very correct one of the Eclipses of JUPITER's first Satelite; a TABLE of the Sun's Right-Ascension; various exact Tables of the most remarkable fixed Stars, corrected from Mr. Flamsteed's Catalogue; and, lastly, a correct TABLE of Latitudes and Longitudes of the most remarkable Places in the World.

By ROBERT WHEELER,

Teacher of the Mathematicks.

57 97

Οἱ ἀγαθοὶ διηγοῦνται δόξαν Θεοῦ.

The FORTY-FOURTH IMPRESSION.

LONDON:

Printed for the Company of STATIONERS; and sold by ROBERT HORSFIELD, at their Hall, in Ludgate-street.

[Price ONE SHILLING stitched.]

Chronological Notes for the Year 1793.

Golden Number	18	Septuagesima Sund.	Jan. 27
Cycle of the Sun	10	Shrove Sunday	Feb. 10
The Epact	17	Easter Day	Mar. 31
Dominical Letter	F	Whit Sunday	May 19
Number of Direction	10	Trinity Sunday	May 26
Roman Indiction	11	Advent Sunday	Dec. 1

Astronomical Characters explained.

♈ Aries	♋ Cancer	♎ Libra	♑ Capricorn
♉ Taurus	♌ Leo	♏ Scorpio	♒ Aquarius
♊ Gemini	♍ Virgo	♐ Sagitary	♓ Pisces

♄ Saturn	☉ Sol (the Sun)	☽ Luna (the Moon)	♅ Herschel, the
♃ Jupiter	♀ Venus	☊ Moon's N. Node	♆ New or Geor-
♂ Mars	☿ Mercury	☋ her S. Node	gian Planet.

☌ Conjunction when Planets are in the same Sign, Deg. Min. &c.
✶ Sextile when 2 Signs dist. | △ Trine when 4 Signs dist.
□ Quartile when 3 Signs dist. | ☍ Opposition when 6 Signs dist.

Of the Four Quarters of the Year 1793.

	d	h	m	
THE Spring Quarter begins	March 20	3	8	morn.
The Summer Quarter begins	June 21	1	10	morn.
The Autumnal Quarter begins	Sept. 22	2	58	aftern.
The Winter Quarter begins	Dec. 21	7	29	morn.

THE beautiful Planet Venus will be an Evening Star 'till May the 27th; and after that Time she will be a Morning Star to the Year's End.

Jupiter will be a Morning Star 'till the 17th Day of May, then an Evening Star till the 4th of December, at which Time he becomes a Morning Star, and so continues to the Year's End.

The NAMES of the Learned JUDGES of the LAW.

I. Commiſſioners of the Great Seal.

Sir James Eyre, Sir William Henry Aſhhurſt, Sir John Wilſon, Knts.

Right Honourable Sir Richard Pepper Arden, Knt. Maſter of the Rolls.

II. In the K. Bench: Right Hon. Lord Kenyon, L. C. J. Sir W. H. Aſhhurſt, Knt Sir Francis Buller, Bart. Sir Naſh Groſe, Knt.

III. In the C. Pleas. R. H. Alex. Lord Loughborough, L. C. J. Sir Henry Gould, Knt John Heath, Eſq; Sir John Wilſon, Knt.

IV. In the Exchequer Sir James Eyre, Knt. L. C. B. Sir Beaumont Hotham, Knt Sir Richard Perryn, Knt. Sir Alex. Thompſon, Knt.

Sir Alex. M'Donald, Knt. Attor. General; Sir John Scott, Knt. Solic. Gen

A TABLE of TERMS and Returns for the Year 1793.

Hilary Term begins Jan. 23, ends Feb. 12.

Returns or Eſſoign-days.	Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary, - - Jan. 20	21	22	23	Wedn.
In fifteen Days of St. Hilary - - - - 27	28	29	30	Wedn.
On the Mor. of the Purif. of the Bl. V. M. Feb. 3	4	5	6	Wedn.
In eight Days of the Purif. of the Bl. V. M. 9	10	11	12	Tuesd.

Eaſter Term begins April 17, ends May 13.

In fifteen Days of Eaſter - - April 14	15	16	17	Wedn.
From Eaſter Day in three Weeks - 21	22	23	24	Wedn.
From Eaſter Day in one Month - 28	29	30	M1	Wedn.
From Eaſter Day in five Weeks - May 5	6	7	8	Wedn.
On the Mor. of the Aſcenſion of the Lord - 10	11	12	13	Monday

Trinity Term begins May 31, ends June 19.

On the Morrow of the Holy Trinity, - May 27	28	29	31	Friday.
In eight Days of the Holy Trinity, - June 2	3	4	5	Wedn.
In fifteen Days of the Holy Trinity, - 9	10	11	12	Wedn.
From the Day of the Holy Trin in 3 Weeks 16	17	18	19	Wedn.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls - - - Nov. 3	4	5	6	Wedn.
On the Morrow of St. Martin - - - 12	13	14	15	Friday.
In eight Days of St. Martin - - - 18	19	20	21	Thurſ.
In fifteen Days of St. Martin - - - - 25	26	27	28	Thurſ.

N. B. No Sittings in Weſtminſter-Hall on the Second of February, Aſcenſion-day, and Midſummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The firſt and laſt Days of every Term, are the firſt and laſt Days of Appearance.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III.	June 4, 1738	Prince Aug. Fred.	Jan. 27, 1773
Prince of Wales,	Aug. 12, 1762	Prince Adolph. Fred.	Feb. 24, 1774
Duke of York,	Auguſt 16, 1763	Princeſs Mary,	April 25, - 1776
Duke of Clarence,	Aug. 21, 1765	Princeſs Sophia,	Nov. 3, - 1777
Princeſs Royal,	Septem. 29, 1766	Princeſs Athelia,	Aug. 7, - 1783
Prince Edward,	Nov. 2, - 1767	Queen Charlotte,	May 19, 1744
Prs. Auguſta Sophia,	Nov. 8, 1768	Prs. Auguſta of Brun.	Aug. 11, 1737
Prs. Elizabeth,	May 22, - 1770	Duke of Glouceſter,	Nov. 25, 1743
Prince Erneſt Auguſtus,	June 5, 1771		

SOVEREIGNS of EUROPE, their Acceſſion, &c.

Kingdoms, &c.	To whom ſubject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
France	Lewis XVI.	Aug. 23, 1754	May 10, 1774
Ruſſia	Catharine II.	May 2, 1729	July 9, 1762
Spain	Charles IV.	Nov. 11, 1748	Dec. , 1788
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Pruſſia	Frederic IV.	Sept. 25, 1744	Aug. 17, 1786
Denmark & Norway	Chriſtian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Guſtavus IV.	Nov. 1, 1778	Mar. 29, 1792
Germany	Francis II.	Feb. 12, 1767	Mar. 1, 1792
Poland	Staniſlaus IX.	Jan. 17, 1732	Nov. 25, 1764
Holland	William V.	March 8, 1748	Oct. 11, 1751
Popedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789

The FULL WEIGHT of the Coins, with the LEAST WEIGHT allowed to paſs of the Gold Coin.

GOLD.	Wt. allowed. dwt. gr.	Full Wt. dwt. gr.
Guinea, - -	5 8	5 9 $\frac{32}{80}$
Half Guinea, -	2 16	2 16 $\frac{64}{80}$
Quarter Guinea,	1 8	1 8 $\frac{32}{80}$

SILVER.	Full Wt. dwt. gr.
A Crown, - -	19 8 $\frac{16}{33}$
Half Crown, -	9 16 $\frac{8}{33}$
Shilling, - -	3 20 $\frac{28}{33}$
Six Pence, - -	1 22 $\frac{14}{33}$

According to the above proportions it appears, that the value of a *lb.* of ſilver is 62 s. or 3 l. 2 s. and of a *lb.* of gold is 44½ guineas, or 46 l. 14 s. 6 d. Alſo that the oz. of ſilver is 5 s 2 d. and the oz. of gold 3 l. 17 s. 10½ d. So that the value of the ſtandard gold is 15 times that of the ſilver, and 1-14th more.

A TABLE of the KINGS and QUEENS of ENGLAND since the CONQUEST.

Kings and Queens	Born A.D.	Began their Reign	Reigned Y.	M.	D.	Age	Rem. Deaths and Dethroned	Where buried
Will. Conq.	1027	1066 Oct. 14	20	10	26	60	Burst by Leap.	Caen, Norm
Will. Rufus	1057	1087 Sept. 9	12	10	24	43	Slain accidentally.	Winchester
Henry I.	1068	1100 Aug. 2	35	3	29	77		Reading
Stephen	1105	1135 Dec. 1	18	10	24	49		Feversham
Henry II.	1133	1154 Oct. 25	34	8	11	55		Fonteverauld
Richard I.	1156	1189 July 6	9	9	0	43	Slain with an Arrow.	Fonteverauld
John	1165	1199 April 6	17	6	13	50		Worcester
Henry III.	1207	1216 Oct. 19	56	0	28	65		Westminster
Edward I.	1239	1272 Nov. 16	34	7	21	67		Westminster
Edward II.	1284	1307 July 7	19	6	18	43		Gloucester
Edward III.	1312	1327 Jan. 25	50	4	27	65		Westminster
Richard II.	1366	1377 June 21	22	3	8	33	Dep. & murd.	Westminster
Henry IV.	1367	1399 Sept. 29	13	5	20	46		Canterbury
Henry V.	1389	1413 Mar. 20	9	5	11	33		Westminster
Henry VI.	1421	1422 Aug. 31	38	6	4	49	Dep. & murd.	Windsor
Edward IV.	1442	1461 Mar. 4	22	1	5	41		Windsor
Edward V.	1471	1483 April 9	0	2	15	12	Murder'd.	Not known
Richard III.	1443	1483 June 22	2	2	0	42	Slain in Battle.	Leicester
Henry VII.	1456	1485 Aug. 22	23	8	0	52		Westminster
Henry VIII.	1492	1509 April 22	37	9	6	55		Windsor
Edward VI.	1537	1547 Jan. 28	6	5	8	15		Westminster
Mary I.	1516	1553 July 6	5	4	11	42		Westminster
Elizabeth	1533	1558 Nov. 17	44	4	7	69		Westminster
James I.	1566	1603 Mar. 24	22	0	3	58		Westminster
Charles I.	1600	1625 Mar. 27	23	10	3	48		Windsor
Charles II.	1630	1649 Jan. 30	36	0	7	54		Westminster
James II.	1633	1685 Feb. 6	4	0	7	67	Abdicated.	St. Germain
Mary II.	1662	1689 Feb. 13	5	10	15	32		Westminster
William III.	1650	1689 Feb. 13	13	0	23	52		Westminster
Anne	1665	1702 Mar. 8	12	4	24	49		Westminster
George I.	1660	1714 Aug. 1	12	10	10	67		Hanover
George II.	1683	1727 June 11	33	4	14	77		Westminster
George III.	1738	1760 Oct. 25	Crowned Sept. 22, 1761.					

Above you view the Rise and Fall of Kings,
Whose Fate sometimes a useful Lesson brings.
Well if all Men could profit from the past!
Each know his Duty, each excel the last,
And justly execute his stated Task.

A TABLE of the moſt Reverend, Right Reverend, and Reverend, the ARCHBISHOPS, BISHOPS and DEANS, exerciſing Eccleſiaſtical Juriſdiction, 1703.

BISHOPS.	Sees.	Date.	Succeeded.	DEANS.
Dr. John Moore	*Bangor*	1775	Ewer deceaſed	
Arch-Biſhop	Canterb. A. B	1783	Cornwallis dec.	Biſhop Buller
Dr. Will. Markham	*Cheſter*	1771	Keene tranſlat.	
Arch-Biſhop	York A. B.	1777	Drummond de.	Dr. J. Fountayne
Dr. Beilby Porteus	*Cheſter*	1776	Markham tran.	
	London	1787	Lowth deceaſ.	Biſhop Pretyman
Ho. Dr. S. Barrington	*Landaff*	1769	Shipley tranſl.d	
	Saliſbury	1782	Hume dec.	
	Durham	1791	Thurlow dec.	Biſhop Hinchliffe
Hon. Dr. B. North	*Litch & Cov.*	1771	Egerton tranſl.	
	Worceſter	1774	Johnſon deceaſ.	
	Wincheſter	1781	Thomas deceaſ.	Dr. Newton Ogle
Sir W. Aſhburnham	Chicheſter	1754	Mawſon tranſl.	Mr. Combe Miller
Dr. Charles Moſs	*St. David's*	1766	Lowth tranſl.	
	Bath & Wells	1774	Willes deceaſe	Ld. Fr. Seymour
Dr. John Hinchliffe	Peterborough	1769	Lamb dec.	Dr. Peter Peckard
H. Dr. James Yorke	*St. David's*	1774	Moſs tranſl.	
	Glouceſter	1779	Warburton dec.	
	Ely	1781	Keene deceaſed	Dr. W. Cooke
Dr. John Thomas	Rocheſter	1774	Pearce dec.	Dr. T. Dampier
Dr. Richard Hurd	*Litch. & Cov.*	1775	B. North tr.	
	Worceſter	1781	B. North tr.	Ho. St. A. St. John
Dr. John Butler	*Oxford*	1777	Lowth tranſl.	
	Hereford	1788	Harley deceaſ.	Dr. N. Wetherell
Dr. John Warren	*St. David's*	1779	Yorke tranſl.	
	Bangor	1783	Moore tranſl.	Dr. Tho. Lloyd
Dr. J. Cornwallis	Litch & Cov.	1781	Hurd tranſl.	Dr. Bapt. Proby
Dr. Lewis Bagot	*Briſtol*	1782	Newton dec.	
	Norwich	1783	Yonge dec.	
	St. Aſaph	1790	Hall fax dec.	Mr. W. D. Shipley
Dr. Richard Watſon	Landaff	1782	Barrington tr.	Dr. R. Price, Pr.
Dr. Edward Smalwel	*St. David's.*	1783	Warren tranſl.	
	Oxford	1788	Butler tranſl.	Dr. Cyril Jackſon
Dr. G. Pretyman	Lincoln	1787	Thurlow tran.	Sir Ri. Kaye, Bt.
Dr. John Douglas	*Carliſle*	1787	Law dec.	
	Salisbury	1791	Barrington tra.	Dr. John Ekins
Dr. William Cleaver	Cheſter	1788	Porteus tran.	Dr. G. Cotton
Dr. Samuel Horſley	St. David's	1788	Smalwell tr.	Mr. Wollaſton, P.
Dr. Richard Beadon	Glouceſter	1789	Halifax tran.	Dr. Joſiah Tucker
Dr. E. V. Vernon	Carliſle	1791	Douglas tranſl.	Dr. Iſaac Milner
Dr. Charles Sutton	Norwich	1792	Bagot tran.	Dr. John Hallam
Dr. Spencer Madan	Briſtol	1792	Bagot tranſl.	Dr. Joſeph Turner
Dr. Wm. Buller	Exeter	1792	Roſs dec.	Dr. C. Harward
	Weſtminſter	1768		Biſhop Thomas
	Windſor	1788		Biſhop Cornwallis
Dr. Claudius Crigan	Sodor & Man	1784	Maſon dec.	

IN the courſe of this year there will happen four eclipſes, two of the ſun, and two of the moon; and one of each of theſe will be viſible in theſe parts.

I. February 25, the firſt is a viſible eclipſe of the moon.

Beginning of the eclipſe	9h	23m	45s. night
The middle -	10	45	15
End of the eclipſe	12	6	30
Total duration -	2	42	45

Digits eclipſed 6° 0′ on the moon's north limb.

II The ſun is eclipſed, but not viſible in theſe parts, on the 12th day of March, in the morning; the conjunction being at 5h. 57m. in the morning, in long. 11° 22° 10′, the moon's latitude being 39′ 40″ ſouth. The ſun will be centrally eclipſed on the meridian, or at noon, in long. 98° eaſt, and latitude 46° 30′ ſouth. So that in the great Pacific Ocean this will be a central and total eclipſe; though inviſible in Europe, on account of the moon's ſouth latitude.

III. Auguſt 21 the moon is eclipſed, but inviſible here.

Beginning of the eclipſe	1h	28m	40s. afternoon
The middle -	2	52	40
End of the eclipſe -	4	16	40
Total duration -	2	48	0

Digits eclipſed 8° 41′ on the moon's ſouth limb.

IV. September 5 the ſun is eclipſed, and viſible here, in the morning.

Beginning of the eclipſe	9h	37m	0s. morning
The middle -	11	8	45
End of the eclipſe -	12	44	15

Digits eclipſed 9° 28′ on the ſun's north limb; and the eclipſe commences at 29° 30′ from the ſun's vertex on the right hand. But this eclipſe will be conſiderably larger all the way more and more north from London or Greenwich, inſomuch as to become annular in the north parts of Scotland, as well as in all the northern parts of the earth, from Hudſon's Bay, and thence eaſtward through the northern parts of Europe and Aſia.

Obliquity of the Ecliptic.	1793.		Equation of Equinoctial Points.
23° 27′ 48″. 3 -	January	1, -	3″. 6
23 27 48. 4 -	April	1, -	5. 0
23 27 48. 6 -	July	1, -	6. 5
23 27 48. 7 -	October	1, -	7. 9
23 27 48. 9 -	December	1, -	9. 2

The Lunations.

Last quarter the 5th day, at 58 minutes past 12 noon.
New Moon the 12th day, at 59 minutes past 8 morning.
First quarter the 19th day, at 29 minutes past 2 morning.
Full Moon the 27th day, at 34 minutes past 4 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ south	Clock bef. ☉
1	Circumcision	8 4	3 56	22 s 57	10 n 58	8 a 30	2 m 46	4′ 22″
2		8 4	3 5	22 52	7 40	9 32	3 30	4 50
3		8 3	3 57	22 45	4 2	10 35	4 13	5 17
4		8 2	3 58	22 39	0 10	11 41	4 56	5 45
5	Old Christ. Day	8 2	3 58	22 32	3 s 47	morn.	5 41	6 11
F	2 S. a. Chr. Epip.	Tw. day	3 59	22 25	7 40	0 48	6 27	6 38
7	Plow Monday	8 0	4 0	22 17	11 19	1 57	7 15	7 3
8	Lucian	7 59	4 1	22 9	14 30	3 8	8 7	7 29
9		7 58	4 2	22 0	16 55	4 21	9 3	7 54
10		7 57	4 3	21 51	18 18	5 31	10 2	8 18
11		7 56	4 4	21 41	18 26	6 35	11 3	8 41
12	O. N. Year's d.	7 55	4 5	21 31	17 16	☽ sets	0 a 5	9 4
F	1 S. aft. Epiph.	Hilary	Ca. T. b	21 21	14 51	6 a 1	1 6	9 27
14	Oxf. Term beg.	7 52	4 8	21 10	11 26	7 21	2 4	9 48
15		7 51	4 9	20 59	7 22	8 40	2 50	10 10
16		7 50	4 10	20 47	2 58	9 57	3 52	10 30
17	Old Twe. Day	7 49	4 11	20 35	1 n 28	11 10	4 42	10 49
18	Q. Char. b. d. k.	Prisca	4 13	20 23	5 40	morn.	5 30	11 8
19		7 46	4 14	20 10	9 28	0 20	6 18	11 26
F	2 S. af. Epiph.	Fabian	4 15	19 57	12 44	1 28	7 6	11 43
21	Agnes	7 43	4 17	19 44	15 20	2 33	7 53	12 0
22	Vincent	7 42	4 18	19 30	17 17	3 33	8 41	12 16
23	Hil. Term beg.	7 40	4 20	19 15	18 15	4 30	9 29	12 30
24		7 39	4 21	19 1	18 20	5 23	10 17	12 44
25	Con. of St. Paul	7 37	4 23	18 46	17 55	6 7	11 4	12 58
26		7 36	4 24	18 31	16 33	6 46	11 50	13 10
28	Septu. S. Pr. Au.	7 34	4 26	18 15	14 20	☽ rises	morn	13 22
F	[Fr. b.	7 33	4 27	17 59	11 48	6 a 13	0 35	13 32
29		7 31	4 29	17 43	8 38	7 14	1 20	13 42
30	K. Cha. I. mar.	7 29	4 31	17 26	5 6	8 17	2 3	13 51
31		7 28	4 32	17 9	1 10	9 22	2 46	14 0

Days	Day ncreas.	Length of Day.	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long ⊖	Helioc long. ♀	Helioc. long. ☿	♄ sets.
1	0 8	7 52	1 ♉ 18	16 ♏ 33	3 ♓ 51	11 ♋ 39	10 ♈ 55	11 ♋ 30	1 m 31
7	0 16	8 0	1 30	17 0	7 30	17 46	20 30	15 ♌ 59	1 5
13	0 28	8 12	1 43	17 28	11 28	23 53	0 ♉ 5	1 ♍ 57	0 39
19	0 44	8 28	1 56	17 56	15 16	0 0	9 41	8 ♎ 4	0 14
25	1 2	8 46	2 9	18 24	19 3	6 ♌ 6	19 18	29 15	11 a 49

Day	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	☿'s latitude	♀'s latitud.	♂'s latitude	♃'s latitude	♄'s latitude	♅'s latitude
1	5 59	6 1	2 5	18♏34	2 s 33	0 n 50	1 s 5	1 s 48	2 n 40	
7	5 56	6 4	2 4	18 15	2 31	0 5	1 7	1 40	3 20	
13	5 52	6 8	2 2	17 56	2 29	0 57	1 5	1 31	2 49	
19	5 46	6 14	2 0	17 37	2 28	0 58	1 2	1 16	1 52	
25	5 39	6 21	1 58	17 18	2 26	0 52	1 0	0 59	0 51	

Day	☉'s longitude	☽'s long.	☽'s latitude	☿'s long.	♀'s long.	♂'s long.	♃'s long.	♄'s long.	♅'s long.
1	♑11 39 22	26♌43	1 s 46	25♑22	24♏15	12♒28	17♒18	11♑4	
2	12 40 32	8♍35	0 45	25 22	24 26	13 15	19 1	0 20	
3	13 41 43	20 35	0 n 19	25 23	24 36	14 2	20 13	9 2	
4	14 42 53	2♎47	1 23	25 24	24 47	14 50	21 27	7 49	
5	15 44 4	15 16	2 25	25 25	24 57	15 37	22 40	6 41	
F	16 45 15	28 7	3 22	25 26	25 8	16 24	23 52	5 40	
7	17 46 26	11♏26	4 9	25 27	25 18	17 11	25 5	4 48	
8	18 47 37	25 14	4 44	25 28	25 28	17 58	26 18	4 6	
9	19 48 4	9♐32	5 3	25 30	25 39	18 45	27 31	3 34	
10	20 49 58	24 17	5 3	25 31	25 49	19 33	28 41	3 12	
11	21 51 8	9♑23	4 42	25 33	25 59	20 20	29 56	3 0	
12	22 52 18	24 40	4 0	25 35	26 9	21 7	1♓9	2 D56	
F	23 53 27	9♒58	3 2	25 37	26 19	21 55	2 21	2 59	
14	24 54 36	25 4	1 51	25 39	26 29	22 42	3 34	3 10	
15	25 55 44	9♓51	0 34	25 41	26 38	23 20	4 46	3 29	
16	26 56 51	24 14	0 s 44	25 43	26 48	24 17	5 58	3 57	
17	27 57 57	8♈9	1 56	25 45	26 57	25 4	7 10	4 36	
18	28 59 2	21 39	3 0	25 47	27 7	25 52	8 22	5 7	
19	♒ 0 0 5	4♉45	3 52	25 50	27 16	26 39	9 34	5 49	
F	1 1 8	17 31	4 32	25 52	27 25	27 26	10 48	6 36	
21	2 2 10	30 0	4 57	25 55	27 34	28 13	11 57	7 26	
22	3 3 10	12♊15	5 8	25 58	27 42	29 1	13 9	8 20	
23	4 4 9	24 22	5 6	26 1	27 51	29 48	14 20	9 18	
24	5 5 7	6♋21	4 49	26 4	28 0	0♓35	15 32	10 18	
25	6 6 4	18 15	4 21	26 7	28 8	1 23	16 43	11 21	
26	7 7 0	0♌6	3 41	26 10	28 16	2 10	17 54	12 26	
F	8 7 54	11 56	2 52	26 14	28 24	2 57	19 5	13 34	
28	9 8 47	23 46	1 55	26 17	28 32	3 44	20 16	14 45	
29	10 9 39	5♍39	0 52	26 21	28 40	4 32	21 27	15 57	
30	11 10 31	17 37	0 n 13	26 24	28 48	5 19	22 38	17 11	
31	12 11 23	29 42	1 15	26 28	28 56	6 6	23 49	18 26	

Day	♃ rises	♂ sets	♀ sets	♅ rises	☿'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	♅'s declin.
1	4 m11	6 a 37	7 a 5	7 m36	7 n27	17 s 57	18 s 11	17 s 14	20 s 18
7	3 50	6 38	7 21	6 42	7 30	18 12	16 46	14 45	20 3
13	3 29	6 40	7 38	6 16	7 35	18 26	15 14	12 3	20 37
19	3 9	6 41	7 54	5 50	7 42	18 38	13 37	9 10	21 29
25	2 49	6 43	8 11	6 14	7 50	18 46	11 56	6 0	22 8

The Lunations.

Last quarter the 4th day, at 38 minutes past 3 morning.
New Moon the 10th day, at 26 minutes past 7 afternoon.
First quarter the 17th day, at 0 minutes past 6 afternoon.
Full Moon the 25th day, at 36 minutes past 10 night.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin	☽'s declin.	☽ rises & sets	☽ south	Clock bef. ☉
1		7 26	4 34	16 s 52	2 s 34	10 a 29	3 m 30	14′ 7″
2	Purif. Candlem.	7 24	4 36	16 35	6 25	11 36	4 16	14 14
F	Sexagesima Sun.	7 23	4 37	16 17	10 4	morn	5 2	14 20
4	[Blase	7 21	4 39	15 5[illegible]	13 19	0 44	5 51	14 25
5	Agatha	7 19	4 41	15 41	15 57	1 53	6 43	14 29
6		7 17	4 43	15 22	17 44	3 3	7 3[illegible]	14 33
7		7 15	4 45	15 3	18 26	4 6	8 36	14 36
8		7 14	4 46	14 44	17 55	5 6	9 36	14 38
9		7 12	4 48	14 25	16 8	5 57	10 37	14 39
F	Quinq. Shro. S.	7 10	4 50	14 5	13 11	☾ sets	11 39	14 39
11		7 8	4 52	13 4[illegible]	9 22	6 a 15	0 a 37	14 39
12	Shrove Tuesday	T. ends	4 54	13 25	5 0	7 25	1 33	14 38
13	Ash Wednesday	O Ca. D	4 56	13 5	0 26	8 43	2 26	14 36
14	Valentine	7 3	4 57	12 45	4 [illegible] 1	9 58	3 18	14 34
15	Cam. T. div. n.	7 1	4 59	12 24	8 6	11 10	4 8	14 30
16		6 59	5 1	12 3	11 39	morn	4 57	14 26
F	1 Sun. in Lent	6 57	5 3	11 42	14 31	0 18	5 46	14 21
18		6 55	5 5	11 21	16 38	1 22	6 35	14 15
19		6 53	5 7	10 59	17 56	2 22	7 24	14 9
20	Ember Week	6 51	5 9	10 38	18 25	3 15	8 12	14 2
21		6 49	5 11	10 16	18 3	4 3	8 59	13 55
22		6 47	5 13	9 54	16 56	4 44	9 46	13 46
23		6 45	5 15	9 32	15 4	5 20	10 32	13 37
F	2 S. in L. St. Mar-	6 43	5 17	9 10	12 33	5 53	11 17	13 28
25	thia. Pr. A. F. b.	6 41	5 19	8 48	9 30	☽ rises	morn	13 18
26		6 39	5 21	8 25	6 3	6 a 10	0 1	13 7
27		6 38	5 22	8 3	2 18	7 14	0 45	12 56
28		6 36	5 24	7 40	1 s 36	8 20	1 30	12 44

Days	Day increas.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc long ♂	Helioc long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ sets
1	1 24	9 8	2 ♉ 24	18 ♏ 56	23 ♓ 27	13 ♌ 12	0 ♊ 32	20 ♏ 15	11 a 22
7	1 4[illegible]	9 30	2 37	19 24	27 13	19 17	10 12	7 ♐ 1	11 1
13	2 8	9 52	2 50	19 52	0 ♈ 56	25 21	19 52	23 31	10 49
19	2 3[illegible]	10 14	3 2	20 20	4 40	1 ♍ 24	29 34	10 ♑ 30	10 29
25	2 54	10 38	3 15	20 48	8 22	7 25	9 ♎ 16	28 45	10 1

Days	Day lig. begins	Day lig. ends	Durat. twilig.	☽'s node	♄'s latitude	♅'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	5 30	6 30	1 56	16♏55	2 s 24	0 n 59	0 s 56	0 ▸ 35	0 s 13
7	5 22	6 38	1 53	16 36	2 23	0 59	0 53	0 12	0 58
13	5 13	6 47	1 51	16 17	2 21	1 0	0 50	0 n 14	1 34
19	5 2	6 55	1 52	15 57	2 20	1 1	0 47	0 41	1 58
25	4 50	7 10	1 52	15 39	2 18	1 1	0 43	1 10	2 8

Days	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♂'s long.	♀'s long.	☿'s long.
1	♒13 12 12	11♒59	2 n 21	26♈32	29♏ 4	6♓53	24♓59	19♑43
2	14 13 1	24 30	3 19	26 36	29 11	7 44	26 9	21 0
F	15 13 49	7♏19	4 8	26 40	29 18	8 27	27 19	22 19
4	16 14 36	20 32	4 45	26 44	29 25	9 14	28 27	23 41
5	17 15 22	4♐ 0	5 8	26 48	29 32	10 1	29 39	25 3
6	18 16 7	18 14	5 14	26 52	29 39	10 48	0♈49	26 26
7	19 16 51	2♑44	5 0	26 56	29 46	11 35	1 55	27 51
8	20 17 34	17 36	4 26	27 1	29 52	12 22	3 8	29 16
9	21 18 15	2♒43	3 32	27 5	29 59	13 9	4 17	0♒42
F	22 18 55	17 56	2 24	27 10	0♐ 5	13 56	5 26	2 10
11	23 19 34	3♓ 5	1 6	27 14	0 11	14 43	6 35	3 39
12	24 20 11	18 0	0 s 16	27 19	0 17	15 30	7 44	5 8
13	25 20 47	2♈34	1 35	27 24	0 23	16 17	8 53	6 38
14	26 21 21	16 43	2 46	27 29	0 28	17 4	10 1	8 9
15	27 21 53	0♉24	3 45	27 34	0 34	17 51	11 10	9 41
16	28 22 23	13 39	4 30	27 39	0 39	18 38	12 18	11 15
F	29 22 50	26 29	5 0	27 44	0 44	19 25	13 26	12 49
18	♓ 0 23 16	9♊ 0	5 15	27 49	0 49	20 12	14 34	14 24
19	1 23 40	21 14	5 15	27 55	0 54	20 58	15 42	16 0
20	2 24 2	3♋16	5 1	28 0	0 58	21 45	16 49	17 37
21	3 24 22	15 10	4 34	28 6	1 3	22 31	17 56	19 15
22	4 24 40	27 0	3 56	28 11	1 7	23 18	19 3	20 54
23	5 24 56	8♌49	3 7	28 17	1 12	24 4	20 10	22 34
F	6 25 10	20 39	2 11	28 22	1 16	24 51	21 17	24 15
25	7 25 22	2♍34	1 8	28 28	1 20	25 37	22 23	25 57
26	8 25 32	14 35	0 2	28 33	1 24	26 24	23 29	27 40
27	9 25 40	26 44	1 n 5	28 39	1 27	27 10	24 35	29 24
28	10 25 47	9♎ 2	2 10	28 45	1 30	27 57	25 40	1♓ 9

Days	♅ rises	♂ sets	♀ sets	☿ rises	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	2 m 26	6 s 46	8 s 31	6 m 23	8 n 0	19 s 1	9 s 52	2 s 32	22 s 14
7	2 5	6 49	8 47	6 31	8 10	19 9	8 3	0 36	21 34
13	1 44	6 53	9 4	6 36	8 22	19 17	6 11	3 44	20 8
19	1 24	6 56	9 21	6 37	8 34	19 22	4 18	6 49	17 55
25	1 4	7 0	9 38	6 36	8 47	19 26	2 24	9 48	14 54

The Lunations.

Laſt quarter the 5th day, at 38 minutes paſt 2 afternoon.
New Moon the 12th day, at 5 minutes paſt 5 morning.
Firſt quarter the 19th day, at 37 minutes paſt 11 morning.
Full Moon the 27th day, at 34 minutes paſt 3 afternoon.

M D	Sundays & other remarkable days	☉ riſes	☉ ſets	☉'s declin.	☾'s declin.	☽ riſes & ſets	☾ South	Clock bef. ☉
1	David	6 [illegible]	5 20	7 17	5 [illegible]	9 a 27	2 m 15	32′ 32″
2	Chad	6 37	5 28	6 54	9 20	10 36	3 0	12 19
F	3 Sund. in Lent	6 35	5 3	6 31	2 [illegible]	11 45	3 49	12 6
4		6 28	5 32	6 8	15 [illegible]	morn	4 [illegible]	11 52
5		6 26	5 34	5 45	17 15	[illegible] 52	5 33	11 38
6		6 24	5 30	5 22	18 17	1 58	6 27	11 24
7	Perpetua	6 22	5 38	4 58	18 [illegible]	2 58	7 27	11 9
8		6 20	5 40	4 35	16 5[illegible]	3 50	8 25	10 54
9		6 18	5 42	4 11	14 36	4 35	9 23	10 38
F	4 or Midl. Sund.	6 16	5 44	3 [illegible]	1 11	5 14	10 22	10 22
11		6 14	5 46	3 24	7 5	5 5[illegible]	11 19	10 6
12	Gregory	6 12	5 48	3 1	2 34	D ſets	0 a 15	9 50
13		6 10	5 50	2 37	2 n 2	7 a 6	1 8	9 33
14		6 8	5 52	2 13	6 24	8 49	2 1	9 16
15		6 6	5 54	1 50	10 17	9 59	2 52	8 59
16		6 4	5 56	1 26	13 31	11 7	3 43	8 41
F	5 Sund. in Lent	St. Pat.	5 58	1 2	15 59	morn	4 33	8 23
18	Edw. K. W. S.	6 0	6 0	0 39	17 36	0 14	5 23	8 5
19		5 58	6 2	0 15	18 21	1 13	6 12	7 47
20		5 56	6 [illegible]	0 n 9	18 15	2 4	7 0	7 29
21	Benedict	5 54	6 0	0 32	17 21	2 48	7 47	7 11
22	Cam. T. ends	5 52	6 8	0 55	15 41	3 25	8 34	6 52
23	Oxf. T. ends	5 50	6 10	1 20	13 22	4 0	9 20	6 33
F	Palm Sunday	5 48	6 12	1 43	10 28	4 30	10 5	6 15
25	Ann. or Lady D.	5 46	6 14	2 7	7 6	4 58	10 49	5 56
26		5 44	6 16	2 30	3 24	5 21	11 33	5 37
27		5 42	6 18	2 54	0 s 31	D rises	morn	5 19
28	Maundy Thurſ.	5 40	6 20	3 17	4 28	7 a 24	0 19	5 0
29	Good Friday	5 38	6 22	3 40	8 17	8 34	1 6	4 41
30		5 36	6 24	4 4	11 47	9 44	1 54	4 23
F	Eaſter Day	5 34	6 26	4 27	14 44	10 52	2 44	4 4

Day	Day increaſ.	Length of day	Heliac. long. ♄	Heliac. long. ♃	Heliac. long. ♂	Heliac. long. ☉	Heliac. long. ♀	Heliac. long ☿	♄ ſets.
1	3 8	10 52	3 ♉ 2	11 ♍ 6	10 ♈ 43	11 ♓ 26	15 ♑ 41	12 ♒ 5	9 a 47
7	3 3	11 1	3 3	21 34	14 28	17 26	25 29	4 ♐ 42	9 28
13	3 56	11 40	3 5	22 2	18 5	23 25	5 ♌ 14	17 35	9 10
19	4 30	12 [illegible]	4 2	22 30	21 41	29 22	14 59	3 ♉ 43	8 52
[illegible]	4 44	12 28	4 15	22 58	25 15	[illegible] 10	24 45	10 ♊ 22	8 35

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	☿'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	♄'s latitude
1	4 43	7 18	1 52	5♏26	2 18	1 2	0 n 41	1 n 30	2 s 7
7	4 30	7 31	1 53	15 7	2 17	1 3	0 37	2 1	1 51
13	4 17	7 44	1 54	4 48	2 16	1 3	0 33	2 31	1 17
19	4 4	7 57	1 55	4 2	2 15	1 4	0 3	3 2	0 22
25	3 50	8 11	1 57	3 10	2 14	1 4	0 26	3 31	0 n 46

Days	☉'s longitude	☽'s long.	☽'s latitude	☿'s long.	♃'s long.	♂'s long.	♀'s long.	♄'s long.
1	♓11 25 53	21♓31	3 n 10	28♈51	1 ♐37	28♓49	26♈45	2♓55
2	12 25 56	4♍14	4 1	28 57	1 36	29 30	27 50	4 42
F	13 25 58	17 12	4 41	29 3	1 38	0♈16	28 55	6 30
4	14 25 58	0♐28	5 18	29 9	1 41	1 2	29 59	8 20
5	15 25 57	14 2	5 18	29 15	1 43	1 48	1♉ 5	10 11
6	16 25 54	27 55	5 10	29 21	1 46	2 34	2 7	12 2
7	17 25 50	12♑ 8	4 43	29 28	1 48	3 20	3 10	13 54
8	18 25 44	26 38	3 58	29 34	1 50	4 6	4 13	15 47
9	19 25 36	11♒22	2 58	29 41	1 51	4 52	5 16	17 42
F	20 25 27	26 14	1 43	29 47	1 53	5 38	6 18	19 39
11	21 25 16	11♓ 7	☻ 22	29 54	1 54	6 24	7 20	21 36
12	22 25 3	25 52	1 s ☻	0♉ 1	1 55	7 10	8 22	23 34
13	23 24 48	10♈24	2 16	☻ 8	1 56	7 56	9 23	25 32
14	24 24 30	24 35	3 23	0 14	1 57	8 42	10 24	27 31
15	25 24 10	8♉22	4 15	0 21	1 57	9 28	11 24	29 31
16	26 23 48	21 44	4 52	0 27	1 58	10 14	12 24	1♈31
F	27 23 24	4♊41	5 12	0 34	1 R 58	11 0	13 24	3 31
18	28 22 58	17 17	5 15	0 41	1 58	11 46	14 24	5 31
19	29 22 29	29 33	5 7	0 48	1 57	12 31	15 24	7 32
20	♈ 0 21 53	11♋36	4 43	0 55	1 57	13 17	16 23	9 32
21	1 21 24	23 30	4 8	1 2	1 57	14 2	17 22	11 31
22	2 20 48	5♌19	3 22	1 9	1 56	14 48	18 20	13 29
23	3 20 10	17 8	2 28	1 16	1 54	15 33	19 17	15 25
F	4 19 29	29 1	1 27	1 23	1 53	16 19	20 12	17 19
25	5 18 46	11♍ 1	0 22	1 31	1 51	17 4	21 7	19 11
26	6 18 1	23 12	0 n 4	1 38	1 50	17 50	22 2	21 4
27	7 17 14	5♎34	1 51	1 45	1 48	18 35	22 56	22 46
28	8 16 25	18 10	2 53	1 52	1 46	19 20	23 50	24 26
29	9 15 34	1♏ 0	3 47	1 59	1 44	20 6	24 43	26 7
30	10 14 41	14 3	4 30	2 6	1 42	20 51	25 36	27 41
F	11 13 46	27 20	4 50	2 14	1 40	21 36	26 28	29 11

Days	♅ rises	♂ sets	♀ rises	♅ rises	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	0m 50	7 a 3	9 a 48	6 m 35	8 n 5	19 s 29	1 s 8	11 n 43	12 s 2
7	0 28	7 7	10 5	6 30	9 10	19 31	0 n 41	14 28	8
13	0 6	7 11	10 22	6 21	9 25	19 32	2 31	17 1	2 5
19	11 a 43	7 15	10 38	6 14	9 40	19 32	4 30	19 21	2 n 3
25	11 20	7 20	10 54	6 5	9 55	19 30	6 15	21 26	8

The Lunations.

Laſt quarter the 3d day, at 32 minutes paſt 10 night.
New Moon the 10th day, at 35 minutes paſt 4 afternoon.
Firſt quarter the 18th day, at 20 minutes paſt 6 morning.
Full Moon the 26th day, at 19 minutes paſt 5 morning.

M. D	Sundays & other remark. days	☉ riſes	☉ ſets	☉'s declin.	☽'s declin.	☽ riſes & ſets	☽ South	Clock bef. ☉
1	Eaſter Monday	5 32	6 28	4 n 50	16 s 56	11 a 59	3 m 37	3 46
2	Eaſter Tueſday	5 30	6 30	5 13	18 13	morn	4 32	3 28
3	Richard Bp, Ch.	5 28	6 32	5 36	18 25	1 0	5 29	3 9
4	St. Ambroſe	5 26	6 34	5 59	17 30	1 55	6 26	2 52
5	Old Lady Day	5 24	6 36	6 21	15 29	2 42	7 23	2 34
6		5 22	6 38	6 44	12 30	3 22	8 19	2 16
7	Low Sunday	5 20	6 40	7 7	8 43	3 56	9 15	1 59
8		5 18	6 42	7 29	4 25	4 28	10 9	1 42
9		5 17	6 43	7 51	0 n 7	4 57	11 2	1 25
10	Ox. & Ca. T. beg.	5 15	6 45	8 13	4 35	☾ ſets	11 54	1 9
11		5 13	6 47	8 35	8 44	7 a 50	0 a 47	0 53
12		5 11	6 49	8 57	12 20	9 3	1 39	0 37
13		5 9	6 51	9 19	15 11	10 8	2 30	0 21
14	2 S. aft. Eaſter	5 7	6 53	9 40	17 12	11 9	3 21	0 6
15		5 5	6 55	10 2	18 18	morn	4 12	oaf. 9
16		5 3	6 57	10 23	18 31	0 5	5 1	0 24
17	Eaſter T. beg.	5 1	6 59	10 44	17 52	0 51	5 49	0 38
18		4 59	7 1	11 5	16 26	1 32	6 36	0 52
19	Alphege	4 57	7 3	11 26	14 18	2 8	7 22	1 5
20		4 56	7 4	11 46	11 35	2 40	8 7	1 18
21	3 S. af. Eaſter	4 54	7 6	12 6	8 21	3 8	8 51	1 31
22		4 52	7 8	12 27	4 44	3 32	9 35	1 43
23	St. George	4 50	7 10	12 47	0 51	3 55	10 20	1 55
24	[M. b.	4 48	7 12	13 6	3 s 9	4 20	11 7	2 6
25	St. Mark. Pre.	4 46	7 14	13 26	7 7	4 46	11 55	2 17
26		4 45	7 15	13 45	10 49	☾ riſes	morn	2 28
27		4 43	7 17	14 4	14 2	8 a 46	0 45	2 37
28	4 Sun. af. Eaſt.	4 41	7 19	14 23	16 33	9 55	1 38	2 47
29		4 39	7 21	14 41	18 8	11 1	2 33	2 55
30		4 37	7 23	15 0	18 38	11 58	3 30	3 4

Days	Day increaſ.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	♄ ſets
1	5 12	12 56	4 ♉ 30	23 ♏ 31	29 ♈ 24	12 ♎ 13	6 ♐ 8	23 ♌ 43	8 a 15
7	5 36	13 20	4 43	23 59	2 ♉ 54	18 7	15 52	26 ♎ 24	7 57
13	6 58	13 42	4 56	24 27	6 22	23 59	25 36	23 ♐ 31	7 39
19	6 22	14 6	5 9	24 55	9 48	29 51	5 ♎ 19	16 ♎ 5	7 21
25	6 44	14 28	5 22	25 23	13 11	5 ♏ 41	15 0	5 ♏ 34	7 4

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	☿'s latitude	♀'s latitude	♂'s latitude	♃'s latitude	♄'s latitud
1	3 33	8 28	2 0	13♍43	2 s 13	1 n 5	0 s 21	4 n 2	2 n
7	3 18	8 43	2 3	13 20	2 13	1 5	0 17	4 25	2 5
13	3 2	8 59	2 6	13 10	2 12	1 6	0 13	4 44	3
19	2 45	9 16	2 13	12 51	2 12	1 6	0 10	4 57	2 2
25	2 26	9 35	2 21	12 32	2 12	1 6	0 [illegible]	5 1	0 5

Days	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♈12 12 49	10♐51	5 n 13	2♉22	1♐38	22♈21	27♉21	0♉3
2	13 11 50	24 33	5 9	2 29	1 35	23 6	28 13	1 5
3	14 10 59	8♑27	4 47	2 36	1 32	23 51	29 4	3 1
4	15 9 48	22 32	4 8	2 44	1 29	24 36	29 54	4 1
5	16 8 45	6♒43	3 13	2 51	1 25	25 21	0♊42	5 2
6	17 7 40	21 6	2 6	2 58	1 22	26 6	1 28	6 1
F	18 6 38	5♓31	0 56	3 6	1 18	26 51	2 13	7
8	19 5 24	19 58	0 s 29	3 13	1 14	27 36	2 58	7 5
9	20 4 14	4♈20	1 45	3 21	1 10	28 20	3 42	8 3
10	21 3 2	18 33	2 54	3 29	1 6	29 5	4 26	9
11	22 1 48	2♉32	3 51	3 36	1 2	29 49	5 9	9 2
12	23 0 32	16 13	4 34	3 44	0 58	0♉34	5 51	9 4
13	23 59 13	29 33	5 0	3 52	0 53	1 18	6 31	9 5
F	24 57 52	12♊31	5 10	3 59	0 48	2 3	7 13	9
15	25 56 29	25 8	5 5	4 7	0 43	2 47	7 52	9 R
16	26 55 4	7♋27	4 45	4 15	0 38	3 32	8 29	9 5
17	27 53 37	19 32	4 13	4 22	0 33	4 16	9 5	9 4
18	28 52 8	1♌26	3 30	4 30	0 28	5 0	9 40	9 2
19	29 50 37	13 16	2 39	4 38	0 22	5 44	10 13	9
20	♉0 49 3	25 6	1 41	4 45	0 16	6 29	10 44	8 4
F	1 47 27	7♍1	0 58	4 53	0 10	7 13	11 14	8 1
22	2 45 49	19 6	0 n 27	5 1	0 4	7 57	11 43	7 3
23	3 44 9	1♎24	1 32	5 8	29♍58	8 41	12 11	7
24	4 42 27	14 0	2 34	5 16	29 52	9 25	12 37	6 2
25	5 40 43	26 53	3 20	5 24	29 46	10 9	13 1	5 4
26	6 38 57	10♏4	4 15	5 31	29 39	10 53	13 25	5
27	7 37 9	23 33	4 47	5 39	29 33	11 36	13 43	4 2
F	8 35 20	7♐16	5 4	5 46	29 26	12 20	14 1	3 4
29	9 33 29	21 10	5 3	5 54	29 19	13 3	14 18	3 1
30	10 31 37	5♑12	4 44	6 2	29 12	13 47	14 32	2 3

Days	☿ rises	♂ sets	♀ sets	☿ sets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	10 a 53	7 a 24	11 a 8	8 a 21	10 n 13	19 s 27	8 n 23	23 n 31	13 n 3
7	10 29	7 28	11 11	8 41	10 29	19 23	10 5	24 57	16 3
13	10 4	7 32	11 13	8 36	10 45	19 17	11 44	26 5	17 4
19	9 39	7 36	11 16	8 6	11 0	19 10	13 18	26 54	16 4
25	9 14	7 40	11 18	7 12	11 16	19 3	14 47	27 22	14 2

The Lunations.

Last quarter the 3d day, at 25 minutes past 4 morning.
New Moon the 10th day, at 31 minutes past 3 morning.
First quarter the 17 h day, at 53 minutes past 12 night.
Full Moon the 25th day, at 52 minutes past 3 afternoon.

M. D.	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	St. Phil. and Ja.	4 36	7 24	15 n 18	18 s 0	morn	4 m 27	3 11
2		4 34	7 26	15 36	16 14	0 49	5 25	3 18
3	Inven. of Cross	4 32	7 28	15 53	13 29	1 29	6 21	3 25
4		4 31	7 29	16 11	9 56	2 5	7 15	3 31
F	5 or Rogat. Su.	4 29	7 31	16 28	5 50	2 37	8 8	3 36
6	John Ev. a. P. L.	4 27	7 33	16 44	1 25	3 6	9 0	3 41
7		4 25	7 35	17 1	3 n 2	3 32	9 51	3 45
8		4 24	7 36	17 17	7 17	4 0	10 42	3 49
9	Ascen. H. Thu.	4 22	7 38	17 33	11 6	4 28	11 32	3 52
10		4 21	7 39	17 49	14 16	☾ sets	0 a 23	3 55
11		4 19	7 41	18 4	16 39	9 a 6	1 15	3 57
F	Sun. af. Ascen.	O. M. D	7 42	18 19	18 9	9 59	2 6	3 58
13	Easter T. ends	4 16	7 44	18 34	18 45	10 49	2 56	3 59
14		4 14	7 46	18 48	18 23	11 34	3 45	3 59
15		4 13	7 47	19 2	17 13	morn	4 33	3 58
16	Oxf. Term c.	4 12	7 48	19 16	15 19	0 12	5 19	3 58
17		4 10	7 50	19 30	12 45	0 44	6 4	3 56
18		4 9	7 51	19 43	9 42	1 12	6 48	3 54
F	Wh. S. Q. Ch. b	Dunst.	7 53	19 56	6 13	1 37	7 31	3 52
20	Whit Monday	4 6	7 54	20 8	2 25	2 1	8 15	3 49
21	Whit Tuesday	4 5	7 55	20 20	1 s 34	2 25	9 0	3 45
22	E. W. Pr. El. b.	4 3	7 57	20 32	5 34	2 49	9 47	3 41
23	[C. T. di. n.	4 2	7 58	20 43	9 26	3 14	10 36	3 36
24		4 1	7 59	20 54	12 56	3 44	11 28	3 31
25		4 0	8 0	21 5	15 49	☾ rises	morn	3 26
F	Trinity Sunday	Augu.	8 2	21 15	17 50	8 a 48	0 23	3 20
27	Venerable Bede	3 57	8 3	21 25	18 45	9 51	1 20	3 13
28		3 56	8 4	21 35	18 28	10 45	2 19	3 6
29	K. Cha. 2. res.	O. T. b	8 5	21 44	16 59	11 31	3 18	2 58
30	Corpus Christi	3 54	8 6	21 53	14 25	morn	4 16	2 50
31	Trin. T. begin	3 53	8 7	22 2	11 1	0 9	5 12	2 42

D.	Day increas.	Length of day	Heliac. long. ♄	Heliac. long. ♃	Heliac. long. ♂	Heliac. long. ☉	Heliac. long. ♀	Heliac. long. ☿	♄ rises
1	7 4	14 48	5 ♉ 35	25 ♍ 50	16 ♉ 33	11 ♍ 30	24 ♎ 40	23 ♍ 9	4 m 32
7	7 26	15 10	5 48	26 18	19 54	17 18	4 ♍ 19	9 ♐ 49	4 10
13	7 44	15 28	6 1	26 46	23 11	23 5	13 55	26 21	3 48
19	8 9	15 49	6 14	27 14	26 21	28 52	23 30	13 ♑ 29	3 26
25	8 16	16 0	6 26	27 42	29 40	4 ♐ 37	3 ♐ 4	2 ♒ 3	3 4

M. D	Day lig. begins	Day lig. ends	Dur. at. twilig.	Pl. ☾'s node	♄'s latitud.	♃'s latitud.	♂'s latitude	♀'s latitud.	☿'s latitude
1	2 4	9 55	2 34	21♍13	2 12	1 16	0 s 6	4 45	0 43
7	1 46	10 16	2 30	11 54	2 12	1 16	0 n 2	4 34	2 11
13	1 19	10 44	3 0	2 35	2 12	1 15	0 6	3 58	3 7
19	0 43	11 22	4 29	11 16	2 12	1 14	0 10	2 59	3 30
25	No real night.			20 56	2 12	1 14	0 13	1 44	3 23

M. D	☉'s longitude	☾'s long.	☾'s latitud.	♄'s longit.	♃'s longit.	♂'s longit.	♀'s longit.	☿'s long.
1	♉11 29 44	19♈12	4 n 7	6 ♉10	2♍1 5	14 ♉30	12 14 5	2 ♉ 4
2	12 27 49	3♒27	3 16	6 17	2 58	15 14	14 56	1 36
3	13 25 53	17 35	2 12	6 25	28 51	15 57	15 5	1 11
4	14 23 56	1♑43	1 1	6 32	28 44	16 40	15 13	0 49
F	15 21 57	15 48	0 s 14	6 40	28 37	17 24	15 19	0 32
6	16 19 57	29 49	1 28	6 47	28 30	18 7	15 25	0 20
7	17 17 55	13♈45	2 36	6 55	28 22	18 50	15 13	0 12
8	18 15 52	27 33	3 34	7 2	28 15	19 33	15 8	0 ☌ 8
9	19 13 48	11 ♉10	4 18	7 10	28 7	20 16	15 1	0 10
10	20 11 43	24 34	4 48	7 18	28 0	20 59	14 52	0 16
11	21 9 36	7 ♊11	5 1	7 25	27 52	21 42	14 42	0 26
F	22 7 28	20 31	4 59	7 33	27 45	22 25	14 30	0 41
13	23 5 18	3♋36	4 43	7 41	27 37	23 8	14 16	1 0
14	24 3 6	15 20	4 13	7 48	27 30	23 51	13 58	1 23
15	25 0 53	27 23	3 33	7 56	27 22	24 34	13 38	1 50
16	25 58 38	9♌17	2 44	8 3	27 15	25 17	13 15	2 20
17	26 56 21	21 7	1 48	8 11	27 7	26 0	12 50	2 53
18	27 54 2	2♍56	0 47	8 18	27 0	26 43	12 24	3 38
F	28 51 42	14 52	0 n 16	8 26	26 52	27 25	11 55	4 21
20	29 49 21	26 59	1 20	8 33	26 45	28 8	11 24	5 8
21	♊ 0 46 58	9♎22	2 21	8 40	26 37	28 50	10 51	5 59
22	1 44 33	22 53	3 16	8 48	26 30	29 33	10 17	6 51
23	2 42 7	5♏11	4 3	8 55	26 22	0♊16	9 42	7 52
24	3 39 40	18 40	4 38	9 2	26 14	0 58	9 5	8 53
25	4 37 12	2♐30	4 57	9 9	26 6	1 40	8 37	9 57
F	5 34 42	16 39	4 59	9 16	25 59	2 23	7 54	11 4
27	6 32 11	1♑9	0 4 43	9 24	25 51	3 5	7 16	12 14
28	7 29 40	15 27	4 8	9 31	25 44	2 47	6 37	13 27
29	8 27 8	29 55	3 17	9 38	25 37	4 29	5 56	14 43
30	9 24 35	14♒18	2 14	9 45	25 29	5 11	5 13	16 2
31	10 22 1	28 34	1 3	9 52	25 22	5 53	4 28	17 24

M. D	♃ rises.	♂ sets.	♀ sets	☿ rises.	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	8 a 48	7a 42	11 a 44	m 16	11 ♑31	18 s 54	16 n 10	27 n 29	11 n 32
7	8 21	7 43	10 41	4 c	11 46	18 45	17 29	27 12	9 30
13	7 54	7 44	10 7	3 46	12 1	18 36	18 41	26 27	8 55
19	7 26	7 45	9 23	3 32	12 14	18 25	19 46	25 12	9 41
25	6 58	7 45	8 32	3 20	12 28	18 15	20 44	23 28	11 25

The Lunations.

Last quarter the 1st day, at 33 minutes past 9 morning.
New Moon the 8th day, at 17 minutes past 3 afternoon.
First quarter the 16th day, at 0 minutes past 6 afternoon.
Full Moon the 23d day, at 0 minutes past 12 night.
Last quarter the 30th day, at 14 minutes past 3 afternoon.

M D	Sundays & other remark. days.	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	Nicomede	3 52	8 8	22 n 10	7 s 0	0 m 43	6 m 6	2 33
	3 S. aft. Trin.	3 51	8 9	22 17	2 39	1 10	6 56	2 24
3		3 51	8 9	22 25	1 n 47	1 36	7 46	2 14
4	K. Geo. 3 born	3 50	8 10	22 32	6 4	2 3	8 36	2 4
5	Pr. Er. Aug. b.	Bonifa.	8 11	22 38	9 59	2 29	9 25	1 54
6		3 48	8 12	22 44	13 21	3 0	10 15	1 43
7		3 48	8 12	22 50	16 0	3 33	11 5	1 32
8		3 47	8 13	22 55	17 49	☽ sets	11 55	1 20
F	2 S. aft. Trin.	3 46	8 14	23 0	18 44	8 a 40	0 a 46	1 9
10		3 4[illegible]	8 14	23 5	18 44	9 27	1 35	0 57
11	St. Barnabas	3 45	8 15	23 9	17 52	10 7	2 23	0 45
12		3 45	8 15	23 13	16 12	10 42	3 10	0 32
13		3 44	8 16	23 16	13 52	11 13	3 56	0 20
14		3 44	8 16	23 19	10 58	11 38	4 40	0 7
15		3 44	8 16	23 21	7 38	morn	5 23	0 bef. 5
F	3 S. aft. Trin.	3 43	8 17	23 24	3 57	0 3	6 5	0 18
17	St. Alban	3 43	8 17	23 25	0 4	0 24	6 48	0 31
18		3 43	8 17	23 26	3 s 54	0 47	7 33	0 44
19	Trin. T. ends	3 43	8 17	23 27	7 49	1 11	8 20	0 57
20	Tra. Ed. KWS	3 43	8 17	23 28	11 29	1 37	9 10	1 10
21	Longest day	3 43	8 17	23 28	14 40	2 8	10 3	1 23
22		3 43	8 17	23 27	17 7	2 45	11 0	1 35
F	4 S. aft. Trin.	3 43	8 17	23 27	18 33	☽ rises	11 59	1 48
24	Nat. J. Bap.	Midf.	8 17	23 25	18 47	8 a 32	morn	2 1
25		3 43	8 17	23 24	17 45	9 22	1 0	2 13
26		3 44	8 16	23 22	15 30	10 3	2 0	2 26
27		3 44	8 16	23 19	12 15	10 39	2 58	2 38
28		3 44	8 16	23 16	8 17	11 9	3 54	2 50
29	St. Peter	3 45	8 15	23 13	3 55	11 37	4 47	3 2
F	5 S. aft. Trin.	3 45	8 15	23 9	0 n 35	morn	5 39	3 14

M D	Day increas.	Length of day	Helioc. long. ♄	Helioc long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ rises
1	8 32	16 16	6 ♉ 41	28 ♏ 15	3 ♊ 24	11 ♐ 19	14 ♐ 11	26 ♒ 50	2 m 37
7	8 40	16 24	6 54	28 43	6 33	17 4	23 42	22 ♓ 11	2 13
13	8 48	16 32	7 7	29 11	9 41	22 48	3 ♑ 12	22 ♈ 34	1 50
19	8 50	16 34	7 20	29 39	12 41	28 31	12 41	27 ♉ 59	1 26
[illegible]	8 50	16 34	7 33	0 ♐ 8	15 49	4 ♑ 15	22 10	5 ♋ 42	1 3

M D	Day lig. begins	Daylig. ends	Durat. tw.lig.	Pl, ☾'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1				10♏34	2 s 23	1 n 35	0 n 48	0 m 6	2 s 44
7				10 15	2 14	1 2	0 28	1 s 15	1 50
13	No	real	night	9 56	2 14	1 1	0 25	2 22	0 45
19				9 37	2 15	1 0	0 28	3 13	0 n 21
25				9 18	2 16	0 59	0 32	3 47	1 15

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♊11 19 27	12♐40	0 s 12	9♉59	25♍15	6♌35	4♊11	18♉48
F	12 16 53	26 35	1 24	10 6	25 8	7 17	3 37	20. 14
3	13 14 18	10♑21	2 31	10 13	25 1	7 59	3 4	21 44
4	14 11 42	23 56	3 28	10 20	24 54	8 41	2 32	23 18
5	15 9 6	7♉21	4 13	10 27	24 47	9 23	2 2	24 54
6	16 6 29	20 34	4 44	10 34	24 40	10 5	1 33	26 32
7	17 3 51	3♊36	4 59	10 40	24 34	10 47	1 6	28 13
8	18 1 13	16 25	4 59	10 47	24 27	11 28	0 42	29 56
F	18 58 34	29 0	4 44	10 53	24 21	12 9	0 20	1♊41
10	19 55 55	11♋22	4 15	11 0	24 15	12 51	0 0	3 31
11	20 53 15	23 32	3 36	11 6	24 9	13 32	29♉42	5 22
12	21 50 34	5♌31	2 47	11 13	24 3	14 14	29 27	7 16
13	22 47 52	17 22	1 52	11 19	23 57	14 55	29 14	9 12
14	23 45 9	29 10	0 52	11 25	23 51	15 37	29 2	11 10
15	24 42 26	10♍58	0 n 11	11 32	23 45	16 18	28 52	13 10
F	25 39 42	22 53	1 14	11 38	23 40	16 59	28 45	15 13
17	26 36 57	5♎ 0	2 14	11 44	23 34	17 40	28D 42	17 18
18	27 34 11	17 23	3 10	11 50	23 29	18 21	28 42	19 25
19	28 31 24	0♏ 8	3 58	11 56	23 24	19 2	28 44	21 33
20	29. 28 37	13 19	4 34	12 2	23 19	19 43	28 48	23 42
21	♋ 0 25 49	26 56	4 57	12 8	23 14	20 24	28 54	25 52
22	1 23 1	10♐59	5 3	12 14	23 9	21 5	29 2	28 2
F	2 20 11	25 25	4 50	12 20	23 5	21 46	29 12	0♋13
24	3 17 23	10♑ 7	4 18	12 26	23 0	22 27	29 24	2 24
25	4 14 34	24 58	3 28	12 32	22 56	23 0	29 37	4 35
26	5 11 45	9♒49	2 24	12 38	22 52	23 48	29 52	6 46
27	6 8 56	24 33	1 10	12 44	22 48	24 29	●♊ 9	8 56
28	7 6 7	9♓ 4	0 s 7	12 49	22 44	25 10	0 29	11 5
29	8 3. 18	23 20	1 22	12 55	22 41	25 51	0 51	13 13
F	9 0 29	7♈17	2 31	13 0	22 37	26 32	1 15	15 19

M D	♃ sets	♂ rises	♀ rises	☿ rises	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	3m 22	3m34	3m23	3m 9	12 n 43	18 s 5	1 n 43	21 n 6	14 n 48
7	2 45	3 23	3 0	3 4	12 55	17 56	22 25	19 11	18 0
13	2 29	3 12	2 38	3 5	13 7	17 48	23 1	17 42	21 7
19	2 3	3 1	2 19	3 17	13 18	17 41	23 28	16 45	23 33
25	1 37	2 51	2 1	3 36	13 28	17 35	23 49	16 24	24 38

The LUNATIONS.

New Moon the 8th day, at 33 minutes past 4 morning.
First quarter the 16th day, at 54 minutes past 8 morning.
Full Moon the 23d day, at 22 minutes past 7 morning.
Last quarter the 29th day, at 46 minutes past 10 night.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock bef. ☉
1		3 46	8 14	23 n 5	4 n 57	0 m 3	6 m 28	3 25
2	Visit. of B.V.M.	Ca. Co.	8 14	23. 1	8 58	0 29	7 17	3 37
3	Dog-days begin	3 47	8 13	22 56	12 28	0 58	8 7	3 48
4	Trans. St. Mar.	3 47	8 13	22 51	15 19	1 29	8 56	3 59
5	Cam. T. e. O. M.	3 48	8 12	22 45	17 22	2 4	9 45	4 9
6		3 49	8 11	22 39	18 33	2 45	10 35	4 19
F	6 S. aft. Trin.	T. à B.	8 11	22 32	18 51	3 29	11 25	4 29
8	Oxford Act	3 50	8 10	22 26	18 15	☽ sets	0 a 13	4 38
9		3 51	8 9	22 18	16 51	8 a 38	1 0	4 47
10		3 52	8 8	22 11	14 44	9 9	1 46	4 56
11		3 53	8 7	22 3	12 0	9 30	2 31	5 4
12		3 54	8 6	21 54	8 48	10 2	3 14	5 12
13	Oxf. T. ends	3 55	8 5	21 46	5 15	10 25	3 57	5 19
F	7 S. aft. Trin.	3 56	8 4	21 36	1 28	10 47	4 40	5 26
15	Swithin.	3 57	8 3	21 27	2 s 26	11 10	5 23	5 32
16		3 58	8 2	21 17	6 19	11 35	6 8	5 38
17		3 59	8 1	21 7	10 1	morn	6 55	5 43
18		4 0	8 0	20 56	13 20	0 3	7 46	5 47
19		4 2	7 58	20 45	16 5	0 37	8 40	5 51
20	Margaret	4 3	7 57	20 34	17 59	1 17	9 37	5 55
F	8 S. aft. Trin.	4 4	7 56	20 22	18 47	2 5	10 37	5 58
22	Magdalen	4 5	7 55	20 10	18 21	3 5	11 38	6 0
23		4 7	7 53	19 58	16 36	☽ rises	morn	6 2
24		4 8	7 52	19 45	13 42	8 a 32	0 39	6 3
25	St. James	4 10	7 50	19 32	9 53	9 7	1 38	6 3
26	S. Anne	4 11	7 49	19 19	5 30	9 36	2 35	6 3
27		4 12	7 48	19 5	0 54	10 4	3 29	6 3
F	9 S. aft. Trin.	4 14	7 46	18 51	3 n 38	10 33	4 21	6 2
29		4 15	7 45	18 37	7 51	10 59	5 14	6 0
30		4 17	7 43	18 23	11 33	11 31	6 1	5 58
31		4 18	7 42	18 8	14 5	morn	6 51	5 55

M D	Day decreas.	Length of day	Helioc. long. ♄	Helioc. long. ♅	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	☽ rises
1	0 6	16 28	7 ♉ 41	0 ♐ 36	18 ♊ 52	9 ♌ 58	1 ♎ 39	10 ♑ 56	0 n. 40
7	0 12	16 22	7 50	1 4	21 52	15 41	11 8	10 ♒ 46	0 18
13	0 24	16 10	8 12	1 33	24 51	21 24	20 38	5 ♎ 25	11 a 56
19	0 38	15 56	8 23	2 1	27 48	27 8	0 ♓ 7	26 15	11 34
25	0 52	15 42	8 28	2 29	0 ♋ 43	2 ♎ 52	9 37	14 ♏ 38	11 12

M D	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♅'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1				♏59	2 17	☊ 57	♌ 35	4 ♑ 9	1 ♏ 46
7	No	real	night	8 40	2 18	☊ 56	☊ 38	4 18	1 50
13				8 21	2 20	☊ 54	☊ 41	4 19	1 32
19				8 2	2 21	☊ 53	☊ 44	4 12	☊ 55
25	☊ 45	11 7	3 17	7 43	2 22	51	☊ 48	4 ☊ 0	☊ 4

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♂'s long.	♀'s long.	☿'s long.
1	♋ 9 57 41	20 ♈ 58	3 30	13 ♉ 5	22 ♍ 4	27 ♌ 12	7 ♌ 40	17 ♋ 25
2	10 54 53	4 ♉ 21	4 16	13 11	22 31	27 53	2 7	19 29
3	11 52 6	17 30	4 47	13 16	22 28	28 34	2 36	21 31
4	12 49 19	☊ ♊ 25	5 4	13 21	22 25	29 14	3 5	23 31
5	13 46 32	13 8	5 4	13 26	22 23	29 54	3 36	25 29
6	14 43 45	25 38	4 51	13 31	22 20	☊ ♌ 34	4 8	27 26
F	15 41 0	7 ♋ 58	4 23	13 36	22 18	1 15	4 41	29 21
8	16 38 14	20 7	3 44	13 41	22 16	1 55	5 15	☊ ♍ 16
9	17 35 29	☊ ♌ 7	2 56	13 45	22 14	2 35	5 51	3 7
10	18 32 44	14 0	2 0	13 50	22 13	3 15	6 29	4 58
11	19 29 59	25 48	☊ 59	13 54	22 11	3 55	7 8	6 47
12	20 27 14	7 ♍ 34	☊ n 4	13 59	22 10	4 35	7 48	8 28
13	21 24 29	19 23	1 8	14 3	22 9	5 15	8 29	10 ♎ 1
F	22 21 44	1 ♎ 17	2 9	14 8	22 8	5 55	9 11	11 54
15	23 18 59	13 23	3 6	14 12	22 7	6 35	9 54	13 38
16	24 16 15	25 45	3 55	14 16	22 6	7 15	10 38	15 13
17	25 13 30	8 ♏ 8	4 34	14 20	22 6	7 56	11 23	16 40
18	26 10 46	21 36	5 0	14 24	22 D 6	8 35	12 8	17 58
19	27 8 1	5 ♐ 12	5 11	14 28	22 6	9 14	12 53	19 55
20	28 5 17	19 16	5 4	14 32	22 6	9 54	13 39	21 25
F	29 2 34	3 ♑ 46	4 37	14 36	22 7	10 33	14 26	22 53
22	29 59 51	18 37	3 51	14 39	22 7	11 13	15 14	24 19
23	♌ 0 57 9	♒ 41	2 49	14 43	22 8	11 53	16 3	25 43
24	1 54 27	18 50	1 34	14 47	22 9	12 32	16 54	27 5
25	2 51 46	3 ♓ 53	☊ 13	14 50	22 10	13 12	17 46	28 26
26	3 49 6	18 42	1 s 7	14 53	22 11	13 52	18 38	29 45
27	4 46 28	3 ♈ 12	2 22	14 56	22 13	14 31	19 30	♍ 1
F	5 43 50	17 20	3 26	14 59	22 14	15 11	20 23	2 14
29	6 41 13	1 ♉ 5	4 17	15 2	22 16	15 50	21 16	3 25
30	7 38 38	14 27	4 51	15 5	22 18	16 30	22 10	4 35
31	8 36 4	27 ♉ 29	5 10	15 8	22 20	17 9	23 4	5 42

M D	♃ sets	♂ rises	♀ rises	☿ sets	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	1m 11	2m 42	1m 46	8 a 55	13 n 36	17 s 31	24 n 1	16 n 28	24 n 5
7	☊ 45	2 36	1 31	9 7	13 44	17 28	24 6	16 52	22 6
13	☊ 19	2 30	1 19	9 8	13 51	17 27	24 3	17 29	19 11
19	11 a 53	2 24	1 8	9 1	13 58	17 28	23 53	18 12	15 44
25	11 28	2 18	1 1	8 48	14 3	17 30	23 36	18 56	12 6

The Lunations.

New Moon the 6th day, at 33 minutes paſt 7 afternoon.
Firſt quarter the 14th day, at 26 minutes paſt 9 night.
Full Moon the 21ſt day, at 46 minutes paſt 2 afternoon.
Laſt quarter the 28th day, at 18 minutes paſt 9 morning.

M. D.	Subdays & other remark. days	☉ riſes	☉ ſets	☉'s declin	☽'s declin.	☽ riſes & ſets	☽ South	Clock bef. ☉
1	Lammas Day	4 20	7 40	17 n 53	16 n 50	0 m 5	7 m 41	5 51
2		4 22	7 38	17 37	18 15	0 44	8 31	5 47
3		4 23	7 37	17 21	18 46	1 26	9 20	5 43
♍	10 S. aft. Trin.	4 25	7 35	17 5	18 26	2 16	10 9	5 37
5		4 26	7 34	16 49	17 16	3 9	10 56	5 32
6	Transfiguration	4 28	7 32	16 33	15 21	☽ ſets	11 43	5 25
7	Pr. Amelia b.	N of J.	7 30	16 16	12 48	7 a 34	0 a 28	5 18
8		4 31	7 29	15 59	9 44	8 7	1 13	5 11
9		4 33	7 27	15 41	6 17	8 30	1 56	5 3
10	St. Laurence	4 35	7 25	15 24	2 34	8 54	2 39	4 54
♎	11 S. aft. Trin.	Pr. Eliz. b.	Dogd. e.	15 6	1 s 17	9 15	3 21	4 45
12	Pr. Wales bn.	O. Lam	7 22	14 48	5 8	9 40	4 5	4 35
13		4 40	7 20	14 29	8 49	10 6	4 51	4 24
14		4 42	7 18	14 11	12 13	10 36	5 39	4 13
15	Aſſumption	4 44	7 16	13 52	15 6	11 12	6 30	4 2
16	D. of York b.	4 45	7 15	13 33	17 17	11 55	7 24	3 50
17		4 47	7 13	13 14	18 31	morn	8 21	3 37
♏	12 S. aft. Trin.	4 49	7 11	12 54	18 39	0 49	9 21	3 24
19		4 51	7 9	12 35	17 31	1 52	10 22	3 10
20		4 53	7 7	12 15	15 9	3 4	11 22	2 56
21	D. Clarence b.	4 54	7 6	11 58	11 43	☽ riſes	morn	2 41
22		4 56	7 4	11 34	7 29	7 a 38	0 21	2 26
23		4 58	7 2	11 14	2 50	8 8	1 16	2 11
24	St. Bartholom.	5 0	7 0	10 53	1 n 54	8 37	2 13	1 55
♐	13 S. aft. Trin	5 2	6 58	10 33	6 24	9 5	3 6	1 39
26		5 4	6 56	10 12	10 24	9 36	3 58	1 22
27		5 6	6 54	9 51	13 43	10 10	4 50	1 5
28	St. Auguſtine	5 8	6 52	9 29	16 15	10 48	5 41	0 47
29	Beh. J. Bap	5 9	6 51	9 8	17 55	11 30	6 32	0 30
30		5 11	6 49	8 47	18 41	morn	7 22	0 12
31		5 13	6 47	8 25	18 34	0 16	8 11	0 af 7

M. D.	Day decreaſ.	Length of day	Helioc. long. ♄	Helioc. long ♅	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	☽ riſes
1	1 14	15 20	8 ♉ 53	3 ♐ 3	4 ♌ 6	9 ♍ 34	20 ♓ 5	4 ♑ 27	10 a 44
7	1 34	15 0	9 6	3 31	6 58	15 19	0 ♈ 17	20 56	10 22
13	1 54	14 40	9 19	3 59	9 49	21 5	9 50	7 ♑ 47	10 0
19	2 16	14 18	9 32	4 28	12 38	26 51	19 24	25 47	9 38
25	2 38	13 56	9 45	4 56	15 26	2 ♎ 38	28 58	15 ♒ 50	9 17

M D	Day-lig begins	Day-lig ends	Durat. twilig.	Pl. ☽'s node	☿'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	♄'s latitude
1	1 24	16 34	2 55	7♑20	2 s 23	0 n 49	0 n 51	3 s 39	1 s 8
7	1 47	10 11	2 42	7 1	2 24	0 48	0 54	3 18	2 15
13	2 9	9 49	2 30	6 42	2 26	0 47	0 57	2 55	3 20
19	2 29	9 30	2 21	6 23	2 27	0 46	1 0	2 30	4 15
25	2 47	9 12	2 14	6 4	2 29	0 44	1 2	2 3	4 33

M D	☉'s longitude	☽'s long.	☽'s latitude	☿'s long.	♃'s long.	♂'s long.	♀'s long.	♄'s long.
1	♌ 9 33 31	10♊14	5 s 13	15♉11	22♍22	17♎48	23♊58	6♍47
2	10 30 59	22 43	5 1	15 14	22 25	18 28	24 53	7 51
3	11 28 28	4♋59	4 35	15 16	22 27	19 7	25 48	8 51
F 4	12 25 59	17 5	3 58	15 19	22 30	19 46	26 44	9 46
5	13 23 32	29 4	3 10	15 21	22 33	20 25	27 41	10 39
6	14 21 6	10♌56	2 14	15 24	22 37	21 4	28 39	11 29
7	15 18 40	22 45	1 13	15 26	22 41	21 43	29 37	12 16
8	16 16 16	4♍31	0 8	15 28	22 45	22 22	0♎35	13 0
9	17 13 53	16 19	0 n 57	15 30	22 49	23 1	1 33	13 40
10	18 11 31	28 10	2 0	15 32	22 53	23 40	2 32	14 15
11	19 9 10	10♎7	2 58	15 34	22 57	24 19	3 31	14 47
12	20 6 50	22 16	3 49	15 36	23 1	24 58	4 30	15 15
13	21 4 31	4♍38	4 31	15 37	23 5	25 37	5 31	15 40
14	22 2 13	17 19	5 1	15 39	23 10	26 15	6 31	16 0
15	22 59 55	0♐23	5 16	15 40	23 14	26 54	7 32	16 14
16	23 57 37	13 51	5 14	15 42	23 19	27 32	8 33	16 21
17	24 55 20	27 47	4 55	15 43	23 24	28 11	9 34	16♑23
18	25 53 10	12♑8	4 17	15 45	23 29	28 50	10 36	16 20
19	26 50 57	26 54	3 21	15 45	23 34	29 28	11 38	16 14
20	27 48 45	11♒56	2 13	15 45	23 39	0 ♎ 6	12 40	16 1
21	28 46 34	27 8	0 49	15 46	23 45	0 45	13 42	15 41
22	29 44 25	12♓19	0 s 35	15 46	23 51	1 23	14 45	15 15
23	♍ 0 42 17	27 21	1 56	15 46	23 57	2 2	15 48	14 42
24	1 40 11	12♈5	3 8	15 47	24 3	2 40	16 51	14
25	2 38 7	26 26	4 5	15 47	24 9	3 18	17 56	13 2
26	3 36 4	10♉21	4 47	15 47	24 16	3 57	19 0	12 4
27	4 34 4	23 49	5 11	15 47	24 22	4 35	20 4	11 4
28	5 32 6	6♊53	5 18	15℞47	24 29	5 13	21 8	10 5
29	6 30 10	19 34	5 9	15 47	24 35	5 51	22 13	9 5
30	7 28 16	1♋57	4 46	15 47	24 42	6 29	23 18	8 5
31	8 26 24	14 6	4 11	15 47	24 49	7 7	24 23	8

M D	♅ rises	♂ rises	♀ rises	☿ sets	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	11 a 2	2 m 13	0 m 56	8 a 29	14 n 8	17 s 35	23 s 7	19 n 41	7 n 5
7	10 40	2 12	0 54	8 8	14 11	17 41	22 36	20 10	4 5
13	10 18	2 10	0 54	7 45	14 12	17 49	21 59	20 26	2 3
19	9 57	2 9	0 58	7 17	14 13	17 58	21 16	20 28	1 3

The Lunations.

New Moon the 5th day, at 57 minutes past 11 morning.
First quarter the 13th day, at 52 minutes past 7 morning.
Full Moon the 19th day, at 8 minutes past 11 night.
Last quarter the 26th day, at 36 minutes past 11 night.

M	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
	14 S. aft. Trin.	G.les	6 45	8 n 3	17 n 37	1 m 9	8 m 59	0 25
2	Lond. bur. 1666	5 17	6 43	7 41	15 53	2 5	9 47	0 44
3		5 19	6 41	7 19	13 30	3 4	10 32	1 4
4		5 21	6 39	6 57	10 33	4 6	11 17	1 23
5		5 23	6 37	6 34	7 11	☾ sets	0 a 1	1 43
6		5 25	6 35	6 12	3 31	7 a 6	0 44	2 2
7	Emerchus 15 S. aft. Trin.	5 27	6 33	5 49	0 s 20	7 29	1 28	2 22
		Nativ	6 31	5 27	4 12	7 52	2 11	2 43
9		5 31	6 29	5 4	7 56	8 18	2 56	3 3
10		5 3[illegible]	6 28	4 41	11 23	8 47	3 43	3 24
11		5 34	6 26	4 18	14 23	9 18	4 32	3 44
12		5 3[illegible]	6 24	3 55	16 44	9 58	5 24	4 5
13		5 38	6 22	3 32	18 15	10 47	6 18	4 26
14	16 S. aft. Trin.	5 40	6 20	3 9	18 46	11 43	7 16	4 47
		5 42	6 18	2 4[illegible]	18 8	morn	8 15	5 8
6		5 4[illegible]	6 16	2 23	16 18	0 51	9 13	5 29
7	Lumber Week	5 4[illegible]	6 14	2 0	13 22	2 5	10 11	5 50
8		5 4[illegible]	6 12	1 36	9 30	3 25	11 9	6 11
9		5 5[illegible]	6 10	1 13	5 1	☾ rises	morn	6 32
0	St. Matthew	5 5[illegible]	6 8	0 50	0 13	6 a 42	0 5	6 53
1	17 S. aft. Trin.	5 54	6 6	0 26	4 n 30	7 12	1 0	7 14
	K. Geo. 3 Cro.	5 56	6 4	0 3	8 52	7 43	1 54	7 35
23		5 58	6 2	0 s 21	12 35	8 16	2 48	7 56
24		6 0	6 0	0 44	15 31	8 52	3 41	8 16
25	Holy Cross	6 2	5 58	1 7	17 3[illegible]	9 34	4 33	8 36
26	St. Cyprian	6 4	5 56	1 31	18 37	10 21	5 5	8 57
27		6 6	5 54	1 54	18 45	11 12	6 15	9 17
28	18 S. af. Trin.	6 8	5 52	2 18	18 1	morn	7 4	9 36
		Pr. R. b.	[illegible]ic	2 41	16 29	0 7	7 52	9 56
30	St. Jerome	6 12	5 48	3 4	14 15	1 6	8 39	10 15

M	Day of year	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ rises
1	3 4	13 30	10 ♉ [illegible]	5 ♐ 28	18 ♋ 40	9 ♓ 25	10 ♉ [illegible]	13 ♓ 22	8 a 52
7	3 28	13 6	10 13	[illegible] 57	21 26	15 14	19 46	11 ♈ 59	8 30
13	3 50	12 44	10 26	6 25	24 11	21 5	29 24	15 ♉ 53	8 8
19	4 14	12 20	10 39	6 54	26 54	26 57	9 ♊ 3	23 ♊ 20	7 46
	4 38	11 56	10 52	7 22	9 37	2 ♈ 49	18 43	29 ♋ 51	7 25

M D	Day lig. begins	Day lig ends.	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	3 7	8 52	2 7	5 ♍ 42	2 s 30	0 n 42	1 n 6	1 s 32	3 s 36
7	3 23	8 36	2 3	5 23	2 32	0 41	1 8	1 5	1 50
13	3 38	8 21	1 59	5 4	2 33	0 40	1 11	0 39	0 0
19	3 52	8 7	1 57	4 45	2 34	0 39	1 13	0 14	1 n 16
25	4 5	7 54	1 57	4 26	2 25	0 38	1 16	0 n 9	1 50

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
F	♍ 9 24 32	26 ♎ 4	3 s 25	15 ♑ 47	24 ♍ 56	7 ♌ 45	5 ♎ 29	7 ♍ 7
2	10 22 44	7 ♌ 55	2 30	15 46	25 3	8 23	26 35	6 13
3	11 20 56	19 43	1 30	15 46	25 11	9 1	27 41	5 23
4	12 19 13	1 ♍ 30	0 35	15 45	25 19	9 39	28 48	4 38
5	13 17 32	13 19	0 n 40	15 44	25 27	10 17	29 54	4 9
6	14 15 51	25 11	1 44	15 43	25 36	10 55	1 ♏ 0	3 29
7	15 14 12	7 ♎ 10	2 44	15 42	25 43	11 33	2 7	3 4
F	16 12 35	19 17	3 38	15 42	25 51	12 11	3 14	2 47
9	17 10 59	1 ♏ 34	4 22	15 39	25 59	12 49	4 21	2 ☽ 40
10	18 9 25	14 3	4 54	15 38	26 8	13 26	5 29	2 44
11	19 7 53	26 48	5 13	15 36	26 16	14 4	6 36	2 56
12	20 6 22	9 ♐ 51	5 16	15 35	26 24	14 42	7 43	3 17
13	21 4 52	23 14	5 2	15 33	26 33	15 19	8 51	3 47
14	22 3 24	6 ♑ 59	4 32	15 31	26 42	15 57	9 59	4 25
F	23 1 58	21 6	3 44	15 29	26 51	16 34	11 7	5 12
16	24 0 33	5 ♒ 35	2 40	15 27	27 0	17 12	12 16	6 9
17	24 59 10	20 21	1 25	15 25	27 9	17 49	13 24	7 13
18	25 57 49	5 ♓ 20	0 3	15 23	27 18	18 27	14 32	8 23
19	26 56 30	20 25	1 s 19	15 20	27 28	19 4	15 41	9 38
20	27 55 12	5 ♈ 25	2 36	15 18	27 38	19 42	16 50	10 58
21	28 53 56	20 14	3 40	15 15	27 48	20 19	17 59	12 24
F	29 52 43	4 ♉ 42	4 30	15 13	27 58	20 56	19 9	13 56
23	♎ 0 51 33	18 45	5 1	15 10	28 8	21 33	20 18	15 31
24	1 50 24	2 ♊ 21	5 14	15 8	28 18	22 10	21 27	17 8
25	2 49 17	15 31	5 10	15 5	28 29	22 47	22 37	18 48
26	3 48 13	28 15	4 51	15 2	28 39	23 24	23 46	20 32
27	4 47 11	10 ♋ 38	4 18	14 59	28 49	24 1	24 57	22 14
28	5 46 12	22 45	3 35	14 56	28 59	24 38	26 7	23 59
F	6 45 15	4 ♌ 43	2 43	14 53	29 9	25 15	27 18	25 45
30	7 44 20	16 29	1 44	14 50	29 19	25 52	8 28	27 31

M D	♅ sets	♂ rises	♀ rises	☿ rises	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
1	9 h 13	2 m 7	1 m 15	5 m 7	14 n 11	18 s 20	19 n 25	19 n 34	5 n 35
7	8 53	2 7	1 27	4 20	14 8	18 32	18 26	18 39	8 41
13	8 33	2 7	1 41	3 59	14 5	18 45	17 23	17 26	10 8
19	8 14	2 7	1 56	4 10	14 0	18 59	16 17	15 56	9 9
25	7 55	2 7	2 13	4 29	13 54	19 14	15 8	14 8	8 8

The LUNATIONS.

New Moon the 5th day, at 37 minutes past 4 morning.
First quarter the 12th day, at 46 minutes past 4 afternoon.
Full Moon the 19th day, at 0 minutes past 9 morning.
Last quarter the 26th day, at 47 minutes past 5 afternoon.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	Remigius	6 14	5 40	3 s 28	11 h 27	2 m 6	9 m 24	10 34
2		6 16	5 44	3 51	8 10	3 10	10 9	10 52
3		6 18	5 42	4 14	4 32	4 12	10 51	11 10
4		6 20	5 40	4 38	0 41	5 1	11 35	11 28
5		6 22	5 38	5 1	3 s 14	☽ sets	0 a 19	11 46
F	19 S. aft. Trin.	Faith	5 36	5 24	7 5	6 a 31	1 4	12 3
7		6 26	5 34	5 47	10 40	6 58	1 50	12 19
8		6 28	5 32	6 10	13 50	7 29	2 39	12 36
9	St. Denys	6 29	5 31	6 33	16 22	8 7	3 30	12 52
10	Oc. & Cam. T. b	O Mic.	5 29	6 55	18 6	8 52	4 23	13 7
11		6 33	5 27	7 18	18 53	9 43	5 27	13 22
12		6 35	5 25	7 41	18 34	10 44	6 13	13 36
F	20 S. aft. Trin.	6 37	5 23	8 3	17 8	11 52	7 10	13 50
14	Tr. K. Edward	6 39	5 21	8 25	14 37	m rn	8 7	14 4
15		6 41	5 19	8 48	11 10	1 9	9 2	14 16
16		6 43	5 17	9 10	6 59	2 28	9 57	14 29
17	Etheldred.	6 45	5 15	9 32	2 21	3 47	10 52	14 41
18	S. Luke	6 47	5 13	9 54	2 n 26	5 9	11 46	14 52
19		6 49	5 11	10 15	7 1	☽ rises	morn	15 2
F	21 S. aft. Trin.	6 51	5 9	10 37	11 7	6 a 16	0 40	15 12
21		6 53	5 7	10 58	14 30	6 52	1 33	15 22
22		6 55	5 5	11 19	16 59	7 33	2 27	15 30
23		6 56	5 4	11 40	18 29	8 17	3 20	15 38
24		6 58	5 2	12 1	18 59	9 7	4 12	15 45
25	K. Geo. 3 Ac.	Crispin	5 0	12 22	18 32	10 3	5 3	15 51
26	K. Geo. 3 Pro.	7 2	4 58	12 43	17 14	11 0	5 53	15 57
F	22 S. aft. Trin.	7 4	4 56	13 3	14 32	11 59	6 40	16 2
28	St. Sim. & Jude	7 6	4 54	13 23	12 32	morn	7 25	16 6
29		7 8	4 52	13 43	9 21	1 2	8 9	16 10
30		7 9	4 51	14 2	5 48	2 5	8 53	16 12
31		7 11	4 49	14 22	1 58	3 9	9 36	16 14

M D	Day decreas.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	♄ rises
1	5 2	11 32	11 ♉ 5	7 ♊ 51	2 ♌ 19	8 ♈ 43	28 ♓ 25	1 ♍ 34	7 a 2
7	5 26	11 8	11 18	8 79	5 0	14 39	8 ♉ 7	27 47	6 39
13	5 48	10 46	11 31	8 47	7 41	20 34	17 50	19 ♎ 42	6 16
19	6 12	10 22	11 44	9 16	10 21	26 33	27 55	8 ♍ 46	5 53
25	6 ··	10 0	11 ··	9 ··	13 0	2 ♊ 22	7 ♌ 20	26 8	5 29

M D	Daylig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♃'s latitude	♂'s latitude	♀'s latitude	☿'s latitude
1	4 18	7 41	1 55	4♍ 7	2 s 36	0 h 37	1 n 18	0 n 31	1 n 50
7	4 31	7 28	1 54	3 48	2 37	0 36	1 21	0 50	1 29
13	4 43	7 16	1 53	3 28	2 37	0 35	1 23	1 6	0 55
19	4 55	7 4	1 53	3 9	2 38	0 34	1 26	1 20	0 16
25	5 6	6 53	1 53	2 50	2 38	0 34	1 28	1 31	0 ^ 24

M D	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♃'s long.	♂'s long.	♀'s long.	☿'s long.
1	♎ 8 43 28	28♌ 5	0 s 41	14♓46	29♍29	26♌29	29♌38	29♍18
2	9 42 38	10♍ 3	0 23	14 42	29 49	27 6	0♍49	1♎35
3	10 41 50	21 56	1 27	14 39	29 51	27 43	1 58	2 52
4	11 41 5	3♎57	2 28	14 35	0♐ 2	28 19	3 10	4 39
5	12 40 22	16 8	3 22	14 32	0 ♑3	28 56	4 21	6 25
6	13 39 41	28 29	4 8	14 28	0 24	29 33	5 32	8 11
7	14 39 2	11♍ 2	4 42	14 24	0 35	0♍ 9	6 43	9 57
8	15 38 24	23 47	5 4	14 20	0 46	0 46	7 54	11 42
9	16 37 48	6♐45	5 10	14 16	0 57	1 22	9 4	13 27
10	17 37 14	19 57	4 59	14 12	1 8	1 59	10 17	15 11
11	18 36 42	3♑22	4 33	14 8	1 20	2 35	11 29	16 55
12	19 36 12	17 3	3 51	14 4	1 31	3 12	12 40	18 38
13	20 35 43	0♒59	2 54	13 59	1 43	3 48	13 52	20 20
14	21 35 17	15 10	1 46	13 54	1 55	4 25	5 4	22 1
15	22 34 51	29 35	0 30	13 50	2 7	5 1	16 16	23 42
16	23 34 27	14♓12	0 s 49	3 45	2 19	5 37	17 29	25 23
17	24 34 5	28 55	2 5	13 41	2 31	6 13	18 41	27 3
18	25 33 45	13♈39	3 13	13 37	2 43	6 49	19 53	28 40
19	26 33 27	28 15	4 7	13 33	2 55	7 25	21 6	0♏19
20	27 33 11	12♉38	4 44	13 28	3 7	8 1	22 18	1 57
21	28 32 57	26 41	5 3	13 24	3 19	8 37	23 31	3 34
22	29 32 45	10♊19	5 5	13 19	3 31	9 1	24 43	5 11
23	♍ 0 32 36	23 31	4 49	13 15	3 43	9 49	25 56	6 49
24	1 32 29	6♋19	4 20	13 10	3 55	10 25	27 8	8 23
25	2 32 24	18 45	3 39	13 5	4 8	11 1	28 21	9 58
26	3 32 21	0♌54	2 49	13 1	4 20	11 37	29 34	11 33
27	4 32 21	12 44	1 52	12 56	4 33	12 12	0♎47	13 7
28	5 32 23	24 38	0 51	12 51	4 45	12 48	2 0	14 40
29	6 32 27	6♍25	0 n 12	12 47	4 58	13 23	3 13	16 13
30	7 32 33	18 15	1 15	12 42	5 10	13 59	4 27	17 46
31	8 32 42	0♎13	2 15	12 37	5 23	14 35	5 40	19 18

♃ sets	♂ rises	♀ rises	☿ rises	♄'s declin.	♃'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
7 s 30	2 m 7	2 31	5 m 18	13 n 42	19 s 28	13 n 50	12 n 0	1 n 58
7 16	2 6	2 48	5 58	13 41	19 42	12 42	9 49	2 s 35
7 57	2 5	3 7	6 32	13 33	19 57	11 25	7 22	7 6
6 38	2 3	3 24	7 10	13 25	20 12	10 7	4 46	11 21

The Lunations.

New Moon the 3d day, at 26 minutes past 8 night.
First quarter the 10th day, at 44 minutes past 12 night.
Full Moon the 17th day, at 46 minutes past 8 night.
Last quarter the 25th day, at 47 minutes past 2 afternoon.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
1	All Saints	7 13	4 47	14 s 41	1 s 59	4 m 13	10 m 19	16 15
2	Pr. Edw. b.	ll Sou.	4 45	15 0	5 57	5 18	11 3	16 15
3	23 S. aft. T.	Prs. S. b	4 43	15 19	9 43	☽ sets	11 49	16 14
4	K. Wm. landed	7 18	4 42	15 37	13 7	5 a 32	0 a 37	16 13
5	Powder Plot	7 20	4 4[illegible]	15 56	15 55	6 8	1 28	16 10
6	Leonard. Ter. b.	7 22	4 3[illegible]	16 14	17 56	6 5[illegible]	2 21	16 7
7	Pr. Ang. S. b.	7 24	4 36	16 31	18 59	7 41	3 16	16 3
8		7 25	4 35	16 49	18 57	8 40	4 12	15 58
9	Ld. Mayor's day	7 27	4 3[illegible]	17 6	17 47	9 45	5 8	15 53
10	24 S. aft. Trin.	7 29	4 31	17 23	15 33	10 58	6 4	15 46
11	St. Martin	7 30	4 30	17 39	12 2[illegible]	morn	6 58	15 39
12	Cam. T. div. m.	7 32	4 28	17 55	8 28	0 13	7 51	15 31
13	Britius	7 33	4 27	18 11	4 2	1 29	8 43	15 22
14		7 35	4 25	18 27	0 n 38	2 48	9 35	15 12
15	Machutus	7 37	4 23	18 42	5 15	4 5	10 27	15 1
16	25 S. aft. Trin.	7 38	4 22	18 57	9 33	5 23	11 19	14 50
17		Hugh.	4 20	19 12	13 1[illegible]	☽ rises	morn	14 38
18		7 41	4 19	19 26	16 11	5 a 24	0 12	14 24
19		7 42	4 18	19 40	18 10	6 6	1 6	14 11
20	Edmund	7 44	4 16	19 53	19 6	6 54	1 59	13 56
21		7 45	4 15	20 6	19 2	7 46	2 51	13 40
22	Cecilia: Old	Mart. o	4 13	20 19	18 3	8 44	3 41	13 24
23	St. Clement.	7 48	4 12	20 32	16 14	9 44	4 30	13 7
24	6 S. aft. Trin.	7 49	4 11	20 44	13 44	10 44	5 16	12 49
25	D. of Glouc. b	Gather.	4 9	20 55	10 42	11 46	6 0	12 30
26		7 52	4 8	21 7	7 15	morn	6 43	12 11
27		7 53	4 7	21 17	3 30	0 50	7 26	11 50
28	Mic. Term ends	7 54	4 6	21 28	0 s 27	1 54	8 9	11 29
29	St. Andrew	7 55	4 5	21 38	4 26	2 58	8 52	11 8
30		7 5[illegible]	4 4	21 48	8 20	4 4	9 37	10 45

M D	Day decreas.	Length of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ☿	♄ sets
1	7 0	9 34	12 ♉ 12	10 ♐ 18	16 ♌ 5	9 ♉ 33	18 ♌ 43	15 ♐ 28	7 m 29
7	7 22	9 12	12 25	10 47	18 44	15 35	28 28	2 ♑ 7	7 2
13	7 40	8 54	12 38	11 15	21 22	21 37	8 ♍ 13	19 38	6 35
19	7 58	8 36	12 51	11 44	23 59	27 41	17 2	8 ♒ 55	6 8
25	8 16	8 18	13 4	12 13	26 37	3 ♊ 45	27 42	0 ♓ 59	5 40

	Day lig. begins	Daylig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♅'s latitude	♂'s latitud	♀'s latitude	☿'s latitud
1	5 17	6 42	1 55	♍28	2 ♑ 38	0 ♏ 39	1 ♐ 31	1 ♑ 0	1 ♑
2	5 25	6 35	1 59	2 9	2 36	0 32	1 33	1 44	1 4
3	5 33	6 27	2 0	1 50	2 37	0 31	1 35	1 45	2 1
4	5 41	6 19	2 1	1 31	2 37	0 31	1 38	1 43	2 2
5	5 48	6 12	2 3	1 12	2 36	0 30	1 40	1 39	2 2

	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♅'s long	♂'s long.	♀'s long.	☿'s
1	♏ 9 32 52	12♎22	3 ♏ 9	12 ♉ 32	5 ♌ 36	15♍10	6♎54	20♍
2	10 33 5	24 46	3 56	12 28	5 49	15 46	8 7	22
	11 33 19	7♏24	4 31	12 23	6 2	16 21	9 21	23
4	12 33 36	20 18	4 54	12 18	6 15	16 56	10 35	25
5	13 33 54	3♐25	5 2	12 13	6 28	17 31	11 49	26
6	14 34 14	16 46	4 53	12 8	6 41	18 6	13 3	28
7	15 34 35	0♑17	4 29	12 3	6 54	18 [illegible]	[illegible]	[illegible]
8	16 34 58	13 58	3 48	11 59	7 7	19 16	15 31	1♐
9	17 35 22	27 46	2 54	11 54	7 20	19 51	16 45	2
	18 35 47	11♒40	1 49	11 49	7 33	20 26	17 59	4
	19 36 15	25 44	0 37	11 44	7 46	21 1	19 13	5
	20 36 42	9♓58	0 s 38	11 39	7 59	21 36	20 27	7
	21 37 11	24 7	1 51	11 34	8 13	22 10	21 41	8
	22 37 42	8♈25	2 57	11 30	8 26	22 45	22 56	[illegible]
	23 38 14	22 42	3 52	11 25	8 39	23 19	24 9	11
	24 38 48	6♉55	4 32	11 20	8 53	23 54	25 23	12
	25 39 23	20 58	4 55	11 15	9 6	24 28	[illegible]	[illegible]
	26 39 59	4♊46	5 0	11 11	9 19	25 3	27 51	15
	27 40 37	18 15	4 48	11 6	9 33	25 37	29 6	17
	28 41 16	1♋22	4 21	11 1	9 46	26 12	♎ 20	18
	29 41 57	14 9	3 42	10 57	9 59	26 46	[illegible]	[illegible]
♐	0 42 40	26 35	2 52	10 52	10 13	27 20	2 49	21
	1 43 24	8♌44	1 51	10 48	10 26	27 54	4 4	22
	2 44 10	20 41	0 55	10 43	10 39	28 28	5 [illegible]	[illegible]
	3 44 57	2♍30	0 n 7	10 39	10 53	29 2	6 33	24
	4 45 46	14 18	1 0	10 35	11 6	29 35	7 48	25
	5 46 37	26 9	2 8	10 31	11 20	0♎ 9	9 [illegible]	[illegible]
	6 47 29	8♎10	3 3	10 27	11 34	0 42	10 26	1
	7 48 23	20 24	3 50	10 23	11 47	1 16	11 32	29
	8 49 18	2♏56	4 26	10 19	12 1	1 49	12 46	29

	♅ sets	♂ rises	♀ rises	☿ sets	♄'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	♀'s declin.
	5 ♐ 57	1 ♏ 58	4 ♑ 3	5 ♐ 5	13 ♑ 7	20 ♉ 43	7 ♏ 15	1 ♉ 13	19 ♉ 5
	5 37	1 54	4 23	5 0	12 58	20 58	5 55	4 2	21 51
	5 17	1 49	4 38	4 58	12 50	21 11	4 35	6 50	23 56
	4 57	1 43	4 55	4 59	12 42	21 24	3 15	9 33	25 17

The Lunations.

New Moon the 3d day, at 47 minutes past 10 morning.
First quarter the 10th day, at 29 minutes past 8 morning.
Full Moon the 17th day, at 52 minutes past 10 morning.
Last quarter the 25th day, at 32 minutes past 12 noon.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉
F	Adv. Sunday.	7 57	4 3	21 s 57	11 s 57	5 m 11	10 m 23	10 22
2		7 58	4 2	22 6	15 4	6 22	11 14	9 59
3		7 59	4 1	22 14	17 28	☽ sets	0 a 5	9 34
4		8 0	4 0	22 22	18 54	5 a 25	1 0	9 10
5		8 1	3 59	22 30	19 15	6 23	1 58	8 44
6	Nicholas	8 2	3 58	22 37	18 23	7 28	2 55	8 18
7		8 3	3 57	22 43	16 23	8 39	3 52	7 52
F	2 Sund. in Adv.	Concep	3 57	22 49	13 23	9 55	4 47	7 25
9		8 4	3 56	22 55	9 37	11 12	5 40	6 58
10		8 5	3 55	23 0	5 18	morn	6 31	6 30
11		8 5	3 55	23 5	0 44	0 28	7 21	6 2
12		8 6	3 54	23 10	3 n 51	1 42	8 11	5 34
13	Lucy	8 6	3 54	23 13	8 12	2 56	9 2	5 5
14		8 7	3 53	23 17	12 4	4 10	9 53	4 36
F	3 Sund. in Adv.	8 7	3 53	23 20	15 16	5 23	10 45	4 7
16	Cam. T. e. O S.	8 8	3 53	23 22	17 36	6 30	11 37	3 38
17	Oxford T. ends	8 8	3 52	23 24	18 57	☽ rises	morn	3 8
18	Ember week	8 8	3 52	23 26	19 18	5 a 19	0 29	2 39
19		8 8	3 52	23 27	18 40	6 19	1 20	2 9
20		8 8	3 52	23 28	17 9	7 16	2 10	1 39
21	St. Thomas	Shor. d	3 52	23 28	14 53	8 18	2 57	1 9
F	4 Sund. in Adv.	8 8	3 52	23 27	12 0	9 21	3 43	0 39
23		8 8	3 52	23 27	8 41	10 23	4 27	0 9
24		8 8	3 52	23 25	5 1	11 26	5 9	0 be 21
25	Christmas Day	8 7	3 53	23 24	1 9	morn	5 51	0 51
26	St. Stephen	8 7	3 53	23 21	2 s 48	0 28	6 33	1 21
27	St. John	8 7	3 53	23 19	6 43	1 33	7 16	1 51
28	Innocents	8 6	3 54	23 16	10 26	2 38	8 1	2 20
F	Sun. aft. Christ.	8 6	3 54	23 12	13 46	3 46	8 48	2 49
30		8 6	3 54	23 8	16 31	4 54	9 39	3 19
31	Silvester	8 5	3 55	23 3	18 26	6 20	10 33	3 47

M D	Day decreas.	Lengt of day	Helioc. long. ♄	Helioc. long. ♃	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	♄ sets
1	8 28	8 6	13 ♉ 17	12 ♐ 41	29 ♌ 14	[illegible] 50	7 ♎ 25	27 ♓ 9	5 m 12
7	8 40	7 54	13 30	13 10	1 ♍ 53	15 36	17 6	28 ♈ 28	4 45
13	8 46	7 48	13 43	13 39	4 29	22 3	26 46	4 ♊ 36	4 17
19	8 50	7 44	13 57	14 7	7 6	28 9	6 ♏ 24	12 ♋ 14	3 49
25	0 inc 2	7 46	14 10	14 36	9 43	4 ♋ 16	16 1	16 ♌ 37	3 21

M.)	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. ☽'s node	♄'s latitude	♅'s latitude	♂'s latitude	♀'s latitude	☿'s latitud
1	5 54	6 6	0 12	♍ 6 53	2 s 35	0 n 30	1 n 42	1 n 32	1 s 5
2	5 57	6 3	0 12	0 34	2 33	0 29	1 45	1 23	0 5
3	5 59	6 1	0 12	0 15	2 32	0 29	1 47	1 12	1 n
4	6 1	5 59	0 12	♎ 29 ♌ 56	2 30	0 28	1 49	0 59	2 4
5	6 1	5 59	0 12	29 36	2 29	0 27	1 52	0 45	3

)	☉'s longitude	☽'s long.	☽'s latitude	♄'s long.	♅'s long.	♂'s long.	♀'s long.	☿'s long.
	♐ 9 50 14	15 ♏ 48	4 n 51	10 ♉ 15	12 ♐ 25	2 ♎ 22	14 ♏ 1	0 ♑ 4
2	10 51 11	29	5 1	10 21	12 28	2 55	15 16	1 3
3	11 52 10	12 ♐ 30	4 54	10 7	12 42	3 28	16 31	2
4	12 53 10	26 17	4 30	10 4	12 55	4 1	17 46	2 3
5	13 54 11	10 ♑ 15	3 50	10 0	13 9	4 34	19 1	3
6	14 55 12	24 2	2 53	9 56	♓ 22	5 7	20 16	3 ♓ 1
7	15 56 14	8 ♒ 3	1 50	9 53	13 36	5 40	21 31	3 1
	16 57 17	22 40	0 37	9 50	13 49	6 13	22 46	3
	17 58 20	6 ♓ 49	0 s 38	9 46	14 3	6 45	24 1	2 4
	18 59 24	20 54	1 51	9 43	14 16	7 18	25 16	2 1
	20 0 28	4 ♈ 56	2 56	9 39	14 30	7 50	26 31	1 3
	21 1 32	18 54	3 51	9 36	14 43	8 23	27 46	0 4
	22 2 37	2 ♉ 47	4 31	9 34	14 57	8 55	29 1	29 ♐ 4
	23 3 42	16 32	4 56	9 31	15 10	9 27	0 ♐ 16	28 2
	24 4 47	0 ♊ 8	5 3	9 28	15 24	9 59	1 31	27 1
	25 5 53	13 34	4 53	9 26	15 37	10 30	2 46	25 4
	26 6 59	26 41	4 28	9 23	15 51	11 2	4 1	24 2
	27 8 6	9 ♋ 34	3 50	9 20	16 4	11 34	5 16	23
	28 9 14	22 11	3 1	9 18	16 18	12 5	6 31	21 4
	29 10 22	4 ♌ 31	2 4	9 16	16 31	12 37	7 46	20 3
♄	0 11 31	16 38	1 2	9 14	16 45	13 8	9 1	19 3
	1 12 40	28 34	0 n 1	9 12	16 58	13 39	10 16	18 4
	2 13 50	10 ♍ 23	1 5	9 10	17 11	14 10	11 31	18
	3 15 0	22 10	2 5	9 8	17 25	14 41	12 46	17 3
	4 16 10	4 ♎ 2	3 6	9 6	17 38	15 12	14 2	17
	5 17 21	16 2	3 45	9 4	17 51	15 42	15 17	16 5
	6 18 33	28 17	4 27	9 3	18 4	16 12	16 32	16 D 5
	7 19 45	10 ♏ 50	4 54	9 1	18 18	16 42	17 48	17
	8 20 58	23 46	5 7	9 0	18 31	17 12	19 3	17 2
	9 22 11	7 ♐ 6	5 4	8 59	18 44	17 42	20 18	17 4
	10 23 24	20 51	4 44	8 58	18 58	18 12	21 33	18 2

♃ rises	♂ rises	♀ rises	☿ sets	☽'s declin.	♅'s declin.	♂'s declin.	♀'s declin.	☿'s declin.
8m 12	1m 29	5m 29	5 a 8	12 n 28	21 s 48	0 n 37	14 s 36	25 s 2
7 51	1 22	5 45	5 1	12 22	21 59	0 s 40	16 49	24 1
7 31	1 14	6 1	4 32	12 17	22 9	1 55	18 47	22 2
7 10	1 5	6 16	3 36	12 14	22 18	3 7	20 27	20 3
6 49	0 56	6 29	3 0	12 12	22 27	4 16	21 45	19 4

Months	Days	Heliocentric longitude	Heliocentric latitude	Geocentric longitude	Geocentric latitude	Declin.	Southi.
		♑ ° ′	° ′	♑ ° ′	° ′	° ′	h m
January	1	21 ♑ 12	0 N 43	23 15	0 N 45	14 ♒ 29	14 56
	11	21 20	0 43	22 56	0 45	14 36	14 5
	21	21 28	0 43	22 33	0 45	14 41	13 21
February	1	21 36	0 43	22 5	0 45	14 53	12 34
	11	21 44	0 43	21 39	0 46	15 1	11 52
	21	21 52	0 43	21 13	0 46	15 10	11 12
March	1	21 58	0 43	20 53	0 45	15 16	10 41
	11	22 6	0 43	20 30	0 45	15 23	10 3
	21	22 13	0 43	20 10	0 45	15 29	9 25
April	1	22 22	0 43	19 53	0 45	15 34	8 44
	11	22 30	0 43	19 43	0 44	15 37	8 7
	21	22 37	0 43	19 37	0 43	15 39	7 29
May	1	22 45	0 43	19 37	0 44	15 38	6 52
	11	22 53	0 43	19 43	0 43	15 36	6 14
	21	23 1	0 43	19 54	0 43	15 33	5 35
June	1	23 9	0 43	20 11	0 43	15 27	4 52
	11	23 17	0 44	20 32	0 42	15 20	4 12
	21	23 25	0 44	20 57	0 42	15 12	3 32
July	1	23 32	0 44	21 26	0 42	15 2	2 52
	11	23 40	0 44	21 58	0 42	14 51	2 13
	21	23 48	0 44	22 32	0 43	14 40	1 36
August	1	23 56	0 44	23 11	0 41	14 27	0 55
	11	24 4	0 44	23 49	0 41	14 15	0 19
	21	24 12	0 44	24 26	0 41	14 2	23 41
September	1	24 20	0 44	25 7	0 42	13 49	23 3
	11	24 28	0 44	25 43	0 42	13 37	22 30
	21	24 36	0 44	26 18	0 42	13 25	21 56
October	1	24 44	0 44	26 49	0 42	13 15	21 22
	11	24 51	0 44	27 18	0 43	13 5	20 47
	21	24 59	0 44	27 43	0 43	12 57	20 11
November	1	25 8	0 44	28 5	0 43	12 50	19 30
	11	25 15	0 44	28 19	0 44	12 45	18 51
	21	25 23	0 44	28 29	0 44	12 42	18 11
December	1	25 31	0 44	28 33	0 45	12 41	17 28
	11	25 39	0 44	28 31	0 45	12 42	16 44
	21	25 46	0 44	28 24	0 45	12 45	16 0
	31	25 54	0 44	28 11	0 46	12 50	15 15

me of High-Water at LONDON in the morning and afte noon of every day in the year.

JANUARY				FEBRUARY				MARCH				APRIL				Mo. Day.
morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
4	19	4	35	4	53	5	10	3	58	4	14	4	59	5	21	1
4	53	5	11	5	29	5	47	4	30	4	48	5	44	6	12	2
5	26	5	46	6	13	6	34	5	7	5	28	6	47	7	13	3
6	7	6	30	7	5	7	30	5	51	6	27	7	45	8	20	4
6	54	7	19	8	6	8	46	6	46	7	16	8	57	9	35	5
7	46	8	16	9	18	9	56	7	49	8	26	10	14	10	51	6
8	48	9	22	10	35	11	13	9	4	9	42	11	26	11	56	7
9	58	10	33	11	52			10	21	10	58			0	26	8
11	9	11	45	0	27	1	0	11	35			0	56	1	26	9
		0	22	1	34	2	4	0	10	0	44	1	5	2	10	10
0	55	1	27	2	30	2	55	1	14	1	43	2	42	3	2	11
1	57	2	30	3	15	3	32	2	11	2	38	3	19	3	35	12
2	56	3	15	3	49	4	5	2	58	3	16	3	51	4	7	13
3	34	3	51	4	24	4	44	3	34	3	50	4	20	4	40	14
4	10	4	29	5	3	5	22	4	7	4	24	5	6	5	26	15
4	50	5	10	5	44	6	8	4	43	5	3	5	48	6	12	16
5	31	5	53	6	33	7	0	5	23	5	44	6	31	7	3	17
5	56	6	43	7	27	7	57	6	9	6	35	7	30	7	58	18
7	8	7	35	8	27	9	0	7	1	7	29	8	26	8	5	19
8	4	8	26	9	32	10	5	7	58	8	29	9	27	9	58	20
9	7	9	39	10	35	11	5	9	0	9	31	10	27	10	54	21
10	10	10	41	11	35			10	2	10	33	11	23	11	51	22
11	12	11	44	0	4	0	31	11	3	11	32			0	17	23
		0	3	0	55	1	19	11	59			0	42	1	7	24
0	39	1	4	1	41	2	3	0	25	0	50	1	31	1	56	25
1	28	1	53	2	24	2	42	1	13	1	35	2	20	2	45	26
2	15	2	35	3	0	3	15	1	57	2	17	3	0	3	18	27
2	53	3	9	3	30	3	44	2	43	2	59	3	35	3	52	28
3	24	3	39					3	15	3	30	4	9	4	30	29
3	51	4	6					3	45	4	1	4	53	5	15	30
4	19	4	36					4	17	4	37					31

This Table may ſerve the following Places, by adding

	h	m
For Tinmouth Haven, Hartle-pool, *and* Amſterdam	0	30
Breſt	1	0
Scilly	1	45
Mount's Bay	1	55
Bridlington Pier *and* Humber	2	0

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Mo. Days	MAY morn. h m	MAY aftern. h m	JUNE morn. h m	JUNE aftern. h m	JULY morn. h m	JULY aftern. h m	AUGUST morn. h m	AUGUST aftern. h m	Mo. Days
1	5 39	6 7	7 22	7 52	7 48	8 18	9 22	9 55	1
2	6 37	7 7	8 23	8 56	8 51	9 24	10 29	11 1	2
3	7 39	8 13	9 29	10 2	9 59	10 31	11 32		3
4	8 48	9 25	10 35	11 7	11 0	11 32	0 2	0 30	4
5	10 c	10 34	11 35			0 3	56	1 20	5
6	11 6	11 38	0 8	0 36	0 31	0 58	1 45	2 8	6
7		0 10	1 3	1 29	1 24	1 45	2 29	2 48	7
8	0 38	0 5	1 55	2 2	2 13	2 36	3 4	3 29	8
9	1 32	1 57	2 42	3 1	2 54	3 10	3 34	3 47	9
10	2 22	2 44	3 18	3 33	3 26	3 41	4 c	4 33	10
11	3 4	3 28	3 49	4 3	3 55	4 8	4 29	4 46	11
12	3 38	3 53	4 21	4 38	4 24	4 41	5 3	5 20	12
13	4 10	4 27	4 56	5 13	4 57	5 14	5 40	6 2	13
14	4 45	5 5	5 32	5 51	5 32	5 51	6 26	6 52	14
15	5 24	5 44	6 12	6 35	6 12	6 35	7 20	7 50	15
16	6 7	6 31	0 57	7 20	6 59	7 24	8 24	9 0	16
17	6 55	7 19	7 45	8 22	7 52	8 22	9 33	10 16	17
18	7 45	8 12	8 41	9 11	8 54	9 29	10 50	11 33	18
19	8 45	9 9	9 42	10 15	10 3	10 40		0 9	19
20	9 37	10 8	10 47	11 19	11 17	11 53	0 44	1 16	20
21	10 37	11 6	11 51			0 28	1 46	2 16	21
22	11 36		0 23	0 54	1 0	1 32	2 43	3 3	22
23	0 5	0 30	1 24	1 54	2 3	2 33	3 22	3 40	23
24	0 59	1 25	2 24	2 48	2 56	3 17	3 57	4 16	24
25	1 52	2 18	3 10	3 30	3 35	3 54	4 35	4 54	25
26	2 44	3 5	3 49	4 9	4 10	4 30	5 14	5 37	26
27	3 24	3 42	4 28	4 49	4 52	5 13	6 1	6 26	27
28	4 c	4 22	5 11	5 34	5 34	5 52	6 54	7 23	28
29	4 44	5 6	5 58	6 24	6 23	6 48	7 52	8 24	29
30	5 29	5 56	6 52	7 26	7 16	7 47	8 57	9 30	30
31	6 24	6 54			8 16	8 47	10	10 24	31

Adding

	h	m
For Fowey, Loo *and* Plymouth	3	10
Dartmouth, Harborough *and* Hull	3	30
Torbay *and* Tinmouth	3	40
Exmouth, Topsham *and* Lime	3	50
Weymouth	4	20
Bridgewater *and* Texel	4	40
Portland and Hartflew	5	50

Time of High-Water at London in the morning and afternoon of every day in the year.

Month.	September				October				November				December			
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.	
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	11	5	11	35	11	37			0	17	0	41	0	20	0	45
2			0	5	0	4	0	30	1	4	1	27	1	12	1	38
3	0	31	0	15	0	53	1	15	1	50	2	14	2	4	2	30
4	1	19	1	41	1	38	2	0	2	34	2	55	2	50	3	10
5	2	4	2	26	2	22	2	41	3	12	3	29	3	30	3	48
6	2	42	3	59	2	58	3	13	3	46	4	2	4	7	4	26
7	3	14	3	29	3	29	3	43	4	22	4	43	4	47	5	10
8	3	43	3	56	3	58	4	13	5	4	5	26	5	34	5	58
9	4	10	4	27	4	32	4	53	5	52	6	20	6	25	6	53
10	4	44	5	3	5	13	5	35	6	48	7	15	7	22	7	51
11	5	23	5	44	6	1	6	29	7	51	8	25	8	23	8	55
12	6	9	6	36	6	59	7	30	9	0	9	36	9	29	10	3
13	7	5	7	35	8	5	8	41	10	10	10	43	10	36	11	8
14	8	13	8	49	9	19	9	58	11	17	11	51	11	40		
15	9	28	10	8	10	34	11	18			0	27	0	18	0	41
16	10	46	11	23	11	43			0	50	1	17	1	8	1	36
17	11	48			0	16	0	47	1	43	2	0	2	2	2	26
18	0	32	1	4	1	16	1	44	2	36	3	16	2	49	3	7
19	1	33	2	2	2	11	2	35	3	15	3	31	3	24	3	40
20	2	30	2	51	2	57	3	15	3	48	4	25	3	55	4	12
21	3	20	3	48	3	32	3	49	4	23	4	42	4	28	4	45
22	3	45	4	23	4	5	4	25	5	2	5	22	5	3	5	21
23	4	20	4	40	4	45	5	5	5	42	6	3	5	39	6	0
24	5	2	5	23	5	20	5	50	6	28	6	51	6	21	6	43
25	5	44	6	5	6	16	6	41	7	15	7	40	7	5	7	29
26	6	37	7	3	7	2	7	34	8	6	8	33	7	52	8	21
27	7	32	7	59	8	3	8	32	9	2	9	31	8	49	9	19
28	8	34	9	4	9	8	9	31	10	1	10	28	9	50	10	20
29	9	38	10	10	10	1	10	29	10	55	11	26	10	56	11	23
30	10	39	11	10	10	56	11	24	11	54			11	56		
31					11	52							0	26	0	52

Subtracting

	h	m
For Leigh, Maes, *and* Gourier Gut		0 5
Gravesend, Rochester, *and* Rammekins		1 20
Buoy of the Nore *and* Flushing		1 30
Portsmouth, Offend, Shoe-Becon, *and* Red-Sand		2 0
Harwich, Dover, Spithead, *and* Calais		3 0
Gunfleet, Hastings, Shoreham, Orfordness, *and* Diepe		4 0
Yarmouth Pier *and* Needle		4 40
St. Helen's *and* Havre-de-Grace		5 30

The Eclipses of Jupiter's

JANUARY				FEBRUARY				MARCH				APRIL			
Immersions				Immersions				Immersions				Immersions			
1	22	4	51	2*	18	24	57	1	7	31	36	2	4	21	29
3	16	38	22	4	18	53	4	3	2	0	21	3	22	40	27
5	10	59	54	6	7	21	18	4	20	29	16	5	17	9	23
7	5	27	28	8	1	49	33	6*	14	57	53	7	11	38	19
8	23	55	3	9	20	17	50	8	9	26	42	9	6	7	16
10*	18	22	39	11	14	46	10	10	3	55	32	11	0	36	13
12	12	50	19	13	9	14	32	11	22	24	23	12	19	5	8
14	7	17	57	15	3	42	58	13*	16	53	14	14*	13	34	3
16	1	45	39	16	22	11	24	15	11	22	6	16	8	2	58
17	20	13	23	18*	16	39	54	17	5	51	0	18	2	31	52
19	14	41	11	20	11	8	26	19	0	19	55	19	21	0	46
21	9	8	59	22	5	37	0	20	18	48	51	21*	15	29	39
23	3	36	52	24	0	5	36	22*	13	17	47	23	9	58	33
24	22	4	46	25	18	34	15	24	7	46	44	25	4	27	28
26*	16	32	42	27	13	2	55	26	2	15	42	26	22	56	24
26	11	0	42					27	20	44	40	28	17	24	56
30	5	28	45					29*	15	13	36	30*	11	53	43
31	23	56	50					31	9	42	32				

MAY				JUNE				JULY				AUGUST			
Immersions				Emersions				Emersions				Emersions			
2	6	22	29	1*	10	36	7	1	12	38	34	2*	9	14	33
4	0	51	12	3	5	4	32	3	7	7	2	4	3	43	39
5	19	19	54	4	23	32	56	5	1	35	31	5	22	12	30
7*	13	48	36	6	18	1	18	6	20	4	0	7	16	41	30
9	8	17	18	8*	12	29	42	8	14	32	30	9	11	10	33
11	2	45	57	10	6	58	3	10	9	1	1	11	5	39	37
12	21	14	34	11	1	26	25	12	3	29	35	13	0	8	4
14	15	43	10	13	19	54	46	13	21	58	10	14	18	37	47
16*	10	11	45	15	14	23	6	15	16	26	47	16	13	6	56
Emersions				17	8	51	26	17*	10	55	26	18	7	36	6
18	6	48	20	19	3	19	47	19	5	24	7	20	2	5	18
20	1	16	52	20	21	48	8	20	23	52	49	21	20	34	31
21	29	46	23	22	16	16	31	22	18	21	32	23	15	3	45
23*	24	13	54	24*	10	44	55	24	12	50	18	25	9	33	0
25	8	42	24	26	5	13	19	26	7	19	5	27	4	2	16
27	3	10	53	27	23	41	43	28	1	47	54	28	22	31	32
	21	39	19	29	18	10	9	29	20	16	45	30	17	0	53
	16	7	41					31	14	45	38				

first Satellite for 1793.

September				October				November	December
Emersions				Emersions					
1	11	30	13	1	13	48	46		
3	5	59	33	3	8	28	0		
5	0	28	52	5	2	47	12		
6	18	58	13	6	21	16	22	The Satellites of Jupiter will not be visible this month, Jupiter being too near the Sun.	The Eclipses of Jupiter's Satellites will not be visible this Month, Jupiter being too near the Sun.
8	13	27	34	8	15	45	31		
10	7	56	56	10	10	14	39		
12	2	26	17	12	4	43	45		
13	20	55	39	13	23	12	48		
15	15	24	59	15	17	41	50		
17	9	54	20	17	12	10	49		
19	4	23	40	19	6	39	45		
20	22	53	1	21	1	8	39		
22	17	22	21	22	19	37	31		
24	11	51	40	24	14	6	21		
26	6	20	59	26	8	35	8		
28	0	50	16	28	3	3	53		
29	19	19	32	29	21	32	36		
				31	16	1	17		

The Times of the Eclipses contained in this Table, ar adapted to the Meridian of the Royal Observatory at Green wich, and afford an excellent Method to discover the Lon gitude, or Difference of Meridians, between that and any othe Place; which I shall illustrate by an EXAMPLE:

Suppose on the 26th Day of September of this Year, the Time of the Immer sion of Jupiter's first Satellite be observed (by a Telescope) in an unknow Meridian, to happen at 8 h. 9 min. 19 sec. I find by the Tab that the Time of the Immersion will happen at the British Obser tory, at 6 h. 20 min. 59 sec. the same day: The Difference of Times is 1 hour 48 min. 20 sec. which being converted into Degrees and M nutes of the Equator, will make 27 deg. 5 min. the Longitude of t Place of Observation, to the East, because the Time is more than that at British Observatory.

N. B. Those marked with an Asterisk are visible at Greenwich.

Speculum Phænomenorum

January

1 ☌☉☿ 1h.
2 ☽ in perige
8 ☌♃☾ 0h.
10 ☌☿☾ 14h.
12 ☿ ſtationary
13 ☌☌☾ 18h.
14 ☌♂☾ 18h.
14 ☌♀☾ 13h.
14 □☉♄ 18h.
15 ☾ in apoge
18 ☌♄☾ 7h.
18 ☉ in ♒ 23h. 58m.
24 ☿ elong. max.
30 ☽ in perige

February

1 ☿ in ♓
4 ☌♃☾ 16h.
8 ☌☿☾ 17h.
9 ☌☉♅ 10h.
9 ♀ in ♓
11 ☿ in aphelio
11 ☌♂☾ 18h.
13 ☾ in apoge
10 ☌♀☾ 10h.
14 ☌♄☾ 18h.
17 ☉ in ♓ 14m. 46m.
18 □☉♃ 11h.
25 ☾ eccl. viſible
26 ☾ in perigeo

March

4 ☌♃☾ 2h.
10 ☌☉☿ 20h.
11 ☌☿☾ 15h.
11 ☉ eccl. inviſible
13 ☽ in apoge
12 ☌♂☾ 18h.
12 ♀ in perihelio
14 ☌♄☾ 20h.
15 ☌♀☾ 5h.
17 ♃ ſtationary
17 ☿ in ♓
18 ♀ elong. max.
9 ☉ in ♈ 15h. 8m.
25 ☾ in perige
27 ☿ in perihelio
31 ☌♃☾ 8h.

April

5 ☿ elong. max.
7 ☽ in apoge
10 ☌♂☾ 17h.
11 ☌♄☾ 2h.
11 ☌☿☾ 12h.
13 ☌♀☾ 23h.
15 ☿ ſtationary
19 ☉ in ♉ 3h. 51m.
21 ☾ in perige
24 ☌☉♄ 16h.
25 ☌☉☿ 2h.
27 ☌♃☾ 10h.
28 ☿ in ♓

May

2 ♂ in ♓
4 ☾ in apoge
5 ♀ ſtationary
8 ☌♄☾ 16h.
8 ☌☿☾ 4h.
8 ☿ ſtationary
8 ☿ in aphelio
9 ☌♂☾ 15h.
9 □☉♅ 12h.
11 ☌♀☾ 12h.
13 ☌♂ 5h.
17 ☌☉♃ 2h.
18 ☾ in perige
20 ☉ in ♊ 4h. 26m.
22 ☿ elong. max.
24 ☾ 13h.
27 ☌☉♀ 11h.
31 ☾ in apogeo

June

1 ♀ in ♓
5 ☌♄☾ 5h.
6 ☌♀☾ 21h.
6 ☌☿☾ 19h.
7 ☌♂☾ 12h.
1 ☾ in perigeo
7 ☿ ſtationary
17 ☿ in ♓
20 ☌♃☾ 17h.
20 ☉ in ♋ 13h. 10m.
24 ☌☉☿ 17h.
28 ☾ in apogeo
30 ☋ in aphelio

ad Annum 1793.

July

2	☌	♄ ☾ 17h.
3		in aphelio
4	☌	☿ ☾ 4h.
6	☌	♂ ☾ 9h.
9	☌	☿ ☾ 12h.
12		in perigeo
18	☌	♃ ☾ 3h.
18		♃ ſtationary
22	☉	in ♌ 0h. 4m.
25		♌ in apogeo
25		☿ in ♋
30	☌	♄ ☾ 1h.

August

2	☌	♀ ☾ 4h.
2		elong. max.
3		☿ in aphelio
4	☌	♂ ☾ 2h.
6		♀ elong. max.
7	□	☉ ♄ 3h.
8	☌	☿ ☾ 16h.
8		☾ in perigeo
14	☌	♃ ☾ 11h.
15	□	☉ ♃ 7h.
16	☌	☉ ♅ 5h.
17		☿ ſtationary
21		☾ eclipſ. inviſ.
21		☾ in apogeo
22	☽	in ♍ 6h. 28m.
26	☌	♄ ☾ 6h.
28		♄ ſtationary
30	☌	☉ ☿ 19h.
8	☌	♀ ☾ 19h.

September

2	☌	♂ ☾ 2h.
4	☌	☿ ☾ 6h.
4	☉	ect. viſible
4	☾	in perigeo
9	☿	ſtationary.
11	☌	♃ ☾ 0h.
12	☿	in ♎
16	☿	elong. max.
17	☿	in perihelio
18	☾	in apogeo
22	☿	in ♎
22	☌	♄ ☾ 16h.
22	☉	in ♎ 2h. 58m.
29	☌	♂ ☾ 18h.
30	☌	♀ ☾ 21h.

October

2	☾	in perigeo
4	☌	☿ ☾ 1h.
8	☌	♃ ☾ 13h.
13	☌	☉ ☿ 9h.
15	☾	in apogeo
20	☌	♄ ☾ 0h.
21		☿ in ♎
22	☉	in ♏ 10h. 56m.
24		♀ in perihelio
25	☌	♂ ☾ 13h.
29	☾	in perigeo
30	☌	♀ ☾ 11h.
31		☿ in aphelio

November

3	☌	☉ ♄ 18h.
4	☌	☿ ☾ 8h.
5	☌	♃ ☾ 5h.
11	☾	in apogeo
16	☌	♄ ☾ 5h.
19	□	☉ ♅ 19h.
21	☉	in ♐ 7h. 8m.
25	☾	in perigeo
27	☌	♂ ☾ 8h.
27	☿	elong. max.
30	☌	♀ ☾ 17h.

December

3	☌	♃ ☾ 0h.
4	☌	☿ ☾ 10h.
4	☌	☉ ♃ 1h.
6	☿	ſtationary
6	☿	in aphelio
8	☾	in apogeo
10	☿	in ♑
11	☌	♄ ☾ 8h.
14	☿	in perihelio
16	☌	☉ ☿ 7h.
20	☉	in ♑ 19h. 29m.
22	☾	in perigeo
25	☌	♂ ☾ 21h.
28		♅ in perihelio
28	☿	ſtationary
30	☌	♃ ☾ 21h.
30	☌	☿ ☾ 18h.
31	☌	♀ ☾ 1h.

A Table of the Sun's semi-diurnal Arches, or Times

The Sun's Declination North.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	8	6	8	6	8	6	9	6	9	6	9
2	6	12	6	13	6	13	6	14	6	14	6	15
3	6	17	6	18	6	18	6	19	6	19	6	20
4	6	22	6	22	6	22	6	24	6	25	6	25
5	6	26	6	27	6	27	6	29	6	30	6	31
6	6	31	6	32	6	33	6	34	6	36	6	37
7	6	36	6	37	6	38	6	40	6	41	6	43
8	6	41	6	42	6	43	6	45	6	47	6	48
9	6	45	6	47	6	48	6	50	6	52	6	54
10	6	50	6	52	6	54	6	56	6	58	7	0
11	6	55	6	57	6	59	7	1	7	3	7	6
12	7	0	7	2	7	4	7	7	7	9	7	12
13	7	5	7	7	7	10	7	12	7	15	7	18
14	7	10	7	13	7	15	7	18	7	21	7	24
15	7	15	7	18	7	21	7	24	7	27	7	31
16	7	21	7	24	7	27	7	30	7	33	7	37
17	7	26	7	29	7	33	7	36	7	40	7	44
18	7	31	7	35	7	38	7	42	7	46	7	51
19	7	37	7	41	7	45	7	49	7	53	7	58
20	7	43	7	47	7	51	7	55	8	0	8	5
21	7	49	7	53	7	57	8	2	8	7	8	13
22	7	55	7	59	8	4	8	9	8	14	8	20
23	8	1	8	6	8	11	8	16	8	22	8	28
24	8	7	8	12	8	18	8	24	8	30	8	36

By these Tables the Times of the Sun's Rising and Setting may be found, in any Part of the Kingdom of *Great-Britain* or *Ireland*, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination out of the Table, on the Noon of the Day you desire to know the Time of his Rising and Setting; and with it, according as it is either North or South, enter these Tables in the left-

of his visible half Duration above the Horizon.

The Sun's Declination South.

Deg.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	59	5	59	5	58	5	58	5	58	5	58
2	5	54	5	54	5	53	5	53	5	53	5	53
3	5	49	5	49	5	49	5	48	5	48	5	47
4	5	45	5	44	5	44	5	43	5	42	5	42
5	5	40	5	39	5	39	5	38	5	37	5	36
6	5	35	5	35	5	34	5	33	5	31	5	30
7	5	31	5	30	5	29	5	27	5	26	5	25
8	5	26	5	25	5	23	5	22	5	21	5	19
9	5	21	5	20	5	18	5	17	5	16	5	13
10	5	17	5	15	5	13	5	11	5	10	5	8
11	5	12	5	10	5	8	5	6	5	4	5	2
12	5	7	5	5	5	3	5	0	4	58	4	56
13	5	2	5	0	4	57	4	55	4	52	4	50
14	4	57	4	54	4	52	4	49	4	47	4	44
15	4	52	4	49	4	46	4	44	4	41	4	37
16	4	46	4	45	4	41	4	38	4	34	4	31
17	4	41	4	38	4	35	4	32	4	28	4	23
18	4	36	4	33	4	29	4	26	4	22	4	18
19	4	30	4	27	4	23	4	19	4	15	4	11
20	4	25	4	21	4	17	4	13	4	9	4	4
21	4	19	4	15	4	11	4	6	4	2	3	57
22	4	13	4	9	4	4	4	0	3	55	3	50
23	4	7	4	3	3	58	3	53	3	47	3	42
24	4	1	3	56	3	51	3	46	3	40	3	34

Left-hand Column, under the Word Degrees; then look the Latitude of the Place in the Top of the Table; and in that Column, against the Sun's Declination, will be found the Time of his visible half Duration above the Horizon, or Time of his Setting, correct by Refraction; then subtract the Time of his Setting from 12 Hours, the Remainder will be the Time of his Rising; double the Time of his Setting,

A Table of the Sun's ſemi-diurnal Arches, or Times

The Sun's Declination North.

Decl.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	9	6	10	6	10	6	10	6	11	6	11
2	6	15	6	16	6	16	6	17	6	17	6	18
3	6	21	6	22	6	22	6	23	6	24	6	25
4	6	27	6	28	6	29	6	30	6	31	6	32
5	6	32	6	34	6	35	6	36	6	38	6	39
6	6	38	6	40	6	41	6	43	6	44	6	46
7	6	44	6	46	6	48	6	49	6	51	6	53
8	6	50	6	52	6	54	6	56	6	58	7	1
9	6	56	6	58	7	1	7	3	7	5	7	8
10	7	2	7	5	7	7	7	10	7	13	7	16
11	7	8	7	10	7	14	7	17	7	20	7	23
12	7	15	7	18	7	21	7	24	7	27	7	31
13	7	21	7	24	7	28	7	31	7	35	7	39
14	7	28	7	31	7	35	7	39	7	43	7	47
15	7	34	7	39	7	42	7	46	7	51	7	56
16	7	41	7	45	7	49	7	54	7	59	8	4
17	7	48	7	52	7	57	8	1	8	7	8	13
18	7	55	8	0	8	5	8	10	8	16	8	22
19	8	2	8	7	8	13	8	19	8	25	8	32
20	8	10	8	15	8	21	8	28	8	35	8	42
21	8	18	8	24	8	30	8	37	8	45	8	53
22	8	26	8	32	8	39	8	47	8	55	9	4
23	8	34	8	41	8	49	8	57	9	6	9	16
24	8	43	8	51	8	59	9	8	9	18	9	29

the Sun will be the Length of the Day; and double the Time of his Riſing, the Sun will be the Length of the Night. But if the Latitude of the Place, and Declination of the Sun, conſiſt of Degrees and Minutes, then a ſmall Allowance muſt be made for the Minutes in both Caſes, which may be done by a Perſon of an ordinary Capacity by a mental Proportion only. Thus, to find the Time of the Sun's Riſing and Setting at

of his visible half Duration above the Horizon.

The Sun's Declination South.

	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	58	5	58	5	58	5	58	5	57	5	57
2	5	52	5	52	5	52	5	51	5	51	5	50
3	5	47	5	46	5	45	5	45	5	44	5	43
4	5	41	5	40	5	39	5	38	5	37	5	36
5	5	35	5	34	5	33	5	32	5	31	5	29
6	5	29	5	28	5	27	5	25	5	24	5	22
7	5	23	5	22	5	20	5	19	5	17	5	15
8	5	17	5	16	5	14	5	12	5	10	5	8
9	5	12	5	10	5	8	5	5	5	3	5	2
0	5	5	5	3	5	1	4	59	4	56	4	53
1	4	59	4	57	4	54	4	52	4	49	4	46
2	4	53	4	51	4	48	4	45	4	4[illegible]	4	38
3	4	47	4	44	4	41	4	38	4	34	4	30
4	4	41	4	37	4	34	4	30	4	27	4	23
	4	34	4	31	4	27	4	23	4	19	4	14
	4	27	4	24	4	20	4	15	4	11	4	6
	4	21	4	17	4	12	4	8	4	3	3	57
	4	14	4	9	4	5	4	0	3	54	3	48
	4	7	4	2	3	56	3	51	3	45	3	39
	3	59	3	54	3	49	3	43	3	36	3	29
	3	52	3	46	3	40	3	34	3	27	3	1[illegible]
	3	44	3	38	3	31	3	24	3	17	3	[illegible]
	3	36	3	29	3	23	3	15	3	6	2	57
	3	27	3	20	3	13	3	5	2	55	2	45

Aberdeen in Scotland, on the Longest Day; the Latitude of that Place is ounted 57 Degr. 7 Min. North, and the Sun's Declination 23 Deg. 28 n. likewise North. By these you will find by the Table, that 5 Min. for Sun's Declination, and 1 Min. for the Latitude of the Place, are both e added to 8 Hours 49 Min. the Time belonging to 57 Degr. of Latitude 23 Degr. of North Declination, and the Sum will be 8 Hours 55 Min. Time of his apparent Setting at Aberdeen, on the longest Day, whose nplement to 12 Hours, viz. 3 Hours 5 Min, will be the Time of his

A Table of the Sun's Right-Aſcenſion in Time, the greateſt

Day	♈			♉			♊			♋			♌			♍		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	0	0	0	1	58	37	3	51	15	6	0	0	8	8	45	10	8	
1	0	3	40	1	55	27	3	55	25	6	4	22	8	12	54	10	12	
2	0	7	20	1	59	17	3	59	36	6	8	43	8	17	3	10	16	
3	0	11	0	2	3	8	4	3	48	6	13	5	8	21	11	10	19	
4	0	14	41	2	6	59	4	8	0	6	17	26	8	25	19	10	23	
5	0	18	21	2	10	51	4	12	13	6	21	48	8	29	26	10	27	
6	0	22	2	2	14	44	4	16	26	6	26	9	8	33	31	10	31	
7	0	25	42	2	18	37	4	20	40	6	30	30	8	37	37	10	34	
8	0	29	23	2	22	31	4	24	55	6	34	52	8	41	42	10	38	
9	0	33	4	2	26	25	4	29	10	6	39	11	8	45	45	10	42	
10	0	36	45	2	30	20	4	33	26	6	43	31	8	49	48	10	46	
11	0	40	26	2	34	16	4	37	42	6	47	51	8	53	51	10	49	
12	0	44	8	2	38	13	4	41	59	6	52	11	8	57	52	10	53	
13	0	47	50	2	42	10	4	46	16	6	56	31	9	1	53	10	57	
14	0	51	32	2	46	8	4	50	34	7	0	50	9	5	53	11	1	
15	0	55	14	2	50	7	4	54	52	7	5	8	9	9	53	11	4	
16	0	58	5	2	54	7	4	59	10	7	9	26	9	13	52	11	8	
17	1	2	40	2	58	7	5	3	29	7	13	44	9	17	50	11	12	
18	1	6	23	3	2	8	5	7	49	7	18	1	9	21	47	11	15	
19	1	10	7	3	6	9	5	12	9	7	22	28	9	25	44	11	19	
20	1	13	51	3	10	12	5	16	29	7	26	54	9	29	40	11	23	
21	1	17	35	3	14	15	5	20	49	7	30	50	9	33	35	11	26	
22	1	21	20	3	18	19	5	25	9	7	35	5	9	37	29	11	30	
23	1	25	6	3	22	23	5	29	30	7	39	20	9	41	23	11	34	
24	1	28	52	3	26	29	5	33	51	7	43	34	9	45	16	11	37	
25	1	32	38	3	30	35	5	38	12	7	47	47	9	49	9	11	41	
26	1	36	25	3	34	41	5	42	34	7	52	0	9	53	1	11	45	
27	1	40	12	3	38	49	5	46	55	7	56	12	9	56	58	11	49	
28	1	44	0	3	42	57	5	51	17	8	0	24	10	0	43	11	52	
29	1	47	48	3	47	6	5	55	38	8	4	35	10	4	33	11	56	
30	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23	12	0	

The time of the ſouthing or meridian tranſits of the fixed ſtars in pa. may be found thus. On the noon of the day, preceding the night in wh you want to know the time of the ſouthing of any of thoſe ſtars, find Sun's place in the Ephemeris, and with it take out of the above table right aſcenſion in time; this you may do by inſpection to a minute, wh will be ſufficient for your preſent purpoſe: Then from the right-aſcenſi the ſtar in pa. 46, ſubtract the right-aſcenſion of the Sun, the remai will be the eſtimate time of the ſtar's ſouthing, and will not differ from true time above 2 or 3 minutes at moſt, which may be near enough for i nary uſes. But when great exactneſs is required, reduce the Sun's pla this eſtimate time, and with it find in the above table his right aſcenſi ſeconds, which being ſubtracted from that of the ſtar, the remainder wil

Obliquity of the Ecliptic being 23° 28'.

♑			♒			♓			♈			♉			♊		
h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
19	0	0	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23
12	13	40	13	55	57	15	55	25	18	4	22	20	12	54	22	12	12
12	7	20	13	59	17	15	59	36	18	8	43	20	17	3	22	16	0
12	11	0	14	3	8	16	3	48	18	13	5	20	21	11	22	19	48
12	14	41	14	6	58	16	7	0	18	17	26	20	25	19	22	23	35
12	18	21	14	10	51	16	12	12	18	21	48	20	29	26	22	27	22
12	22	2	14	14	44	16	16	25	18	26	9	20	33	31	22	31	8
12	25	42	14	18	37	16	20	40	18	30	30	20	37	37	22	34	54
12	29	23	14	22	31	16	24	55	18	34	51	20	41	41	22	38	40
12	33	4	14	26	25	16	29	10	18	39	11	20	45	45	22	42	25
12	36	45	14	30	20	16	33	26	18	43	32	20	49	48	22	46	9
12	40	26	14	34	16	16	37	42	18	47	51	20	53	51	22	49	53
12	44	8	14	38	13	16	41	59	18	52	11	20	57	52	22	53	37
12	47	50	14	42	10	16	46	16	18	56	31	21	1	53	22	57	20
12	51	32	14	46	8	16	50	34	19	0	50	21	5	53	23	1	3
12	55	14	14	50	7	16	54	52	19	5	8	21	9	53	23	4	46
12	58	57	14	54	7	16	59	10	19	9	26	21	13	52	23	8	28
13	2	40	14	58	7	17	3	29	19	13	44	21	17	50	23	12	10
13	6	23	15	2	8	17	7	49	19	18	1	21	21	47	23	15	52
13	10	7	15	6	9	17	12	9	19	22	18	21	25	44	23	19	34
13	13	51	15	10	12	17	16	29	19	26	34	21	29	40	23	23	15
13	17	35	15	14	15	17	20	49	19	30	50	21	33	35	23	26	56
13	21	20	15	18	19	17	25	9	19	35	5	21	37	29	23	30	37
13	25	6	15	22	23	17	29	30	19	39	20	21	41	23	23	34	18
13	28	52	15	26	29	17	33	51	19	43	34	21	45	18	23	37	58
13	32	38	15	30	35	17	38	12	19	47	47	21	49	9	23	41	39
13	36	25	15	34	41	17	42	34	19	52	0	21	53	1	23	45	19
13	40	12	15	38	49	17	46	55	19	56	12	21	56	52	23	49	0
13	44	0	15	42	57	17	51	17	20	0	24	22	0	43	23	52	40
13	47	48	15	47	6	17	55	38	20	4	35	22	4	33	23	56	20
13	51	37	15	51	15	18	0	0	20	8	45	22	8	23	0	0	0

...ue time of the ſtar's culminat...
...r ſouthing. And if from the ...
...of the ſtar's ſouthing you ſub...
...the ſemidiurnal arc belonging to ...
...e remainder will be the time of ...
...r's riſing; and being added to ...
...e ſun, will be the time of its ...

...nexed is an Ex. of SIRIUS for ...
..., 1792.

☉'s place at noon	♒	12°	11'
Rt. Aſc. of Sirius			
☉'s rt. aſc. ſubtract			
*'s eſtimate ſouthing			
☉'s rt. aſc. at that time ſub.			
*'s true ſouthing			
Semid. arc ſub. & add			
*'s riſing aſtern.			
*'s ſetting			

h	m	s
6	35	5
	58	3
9	37	2
1	0	4
4	36	12
4	58	2
9	12	0

A Table of the mean Right Aſcenſions in time, Semidiurnal Arcs, Declinations, and Magnitudes of 40 remarkable fixed Stars, with their Names and Bayer's Literal Characters, for January 1, 1790.

Names of the Stars	Ch	Rt. Aſc.			Declination			Semidiurnal Arc.			M
		h	m	s	°	′	″	h	m	s	
Pole ſtar, Alruccabah	α	0	48	57	88	12	34 n	ſets not			2
Andromeda's girdle, Mirach	β	0	57	48	34	29	47 n	10	7	52	2
Andromeda's left foot, Almach	γ	1	51	20	41	18	41 n	ſets not			2
Ram's following horn	α	1	55	28	22	27	43 n	8	9	35	2
Whale's jaw, Menkar	α	2	51	19	3	15	11 n	6	19	48	2
Medusa's head, Algol	β	2	54	32	40	7	41 n	ſets not			2
Perſeus's right ſide, Algenib	α	3	9	26	49	7	6 n	ſets not			2
Brighteſt of the 7 ſtars	η	3	35	2	23	26	22 n	8	16	40	3
Bull's ſouth eye, Aldebaran	α	4	23	51	16	4	19 n	7	28	51	1
Auriga's left ſhoulder, Capella	α	5	1	11	45	46	57 n	ſets not			1
Orion's left foot, Rigel	β	5	4	27	8	27	38 s	5	20	28	1
Bull's north horn	β	5	12	57	28	25	12 n	8	57	1	2
Orion's left ſhoulder, Bellatrix	γ	5	13	54	6	8	50 n	6	34	41	2
Orion's girdle	ε	5	25	32	1	21	22 s	5	56	42	2
Orion's right ſhoulder, Betelgeuſe	α	5	43	46	7	21	2 n	6	40	58	1
In the great Dog's mouth, Sirius	α	6	35	58	16	25	8 s	4	36	55	1
Head of the 1ſt Twin, Caſtor	α	7	21	11	32	19	57 n	9	38	21	1
In the leſs Dog's thigh, Procyon	α	7	28	21	5	46	33 n	6	32	50	1
Head of the 2d Twin, Pollux	β	7	32	30	28	31	19 n	8	58	13	2
Hydra's heart, Alphard	α	9	17	15	7	45	30 s	5	24	20	2
Lyon's heart, Regulus	α	9	57	11	12	58	43 n	7	11	28	1
Great Bear, Lower Pointer	β	10	49	4	57	30	19 n	ſets not			2
Great Bear, Upper Pointer	α	10	50	39	62	53	25 n	ſets not			2
Lion's tail, Deneb	β	11	38	24	15	44	22 n	7	27	18	2
Great Bear, 1ſt in the tail, Alliath	ε	12	45	5	57	7	0 n	ſets not			2
Virgin's ſpike	α	13	14	10	10	3	38 s	5	12	20	1
Dragon's tail	α	13	58	42	65	20	53 n	ſets not			2
Bootes, Arcturus	α	14	6	11	20	20	20 n	7	55	26	1
Libra, Southern Scale	α	14	31	22	15	9	30 s	4	44	23	2
Libra, Northern Scale	β	15	5	47	8	36	4 s	5	19	57	2
Bright ſtar in the North Crown	α	15	25	49	27	25	35 n	8	42	36	2
Scorpion's heart, Antares	α	16	16	35	25	56	54 s	3	34	6	1
Hercules's head, Raſ. Algethi	α	17	5	7	14	38	4 n	7	20	41	2
Head of Serpentarius	ε	17	25	8	12	43	20 n	7	9	50	2
Dragon's head, Raſtaben	γ	17	51	51	51	31	28 n	ſets not			2
Bright ſtar in the Harp, Lyra	α	18	29	40	38	35	39 n	ſets not			1
Bright ſtar in the Eagle, Atair	α	19	40	25	8	18	55 n	6	45	57	1
Mouth of ſouth Fiſh, Fomalhaut	α	22	45	53	30	43	12 s	2	52	6	1
Pegaſus's wing, Markab	α	22	54	15	14	4	11 n	7	17	10	2
Andromeda's head	α	23	57	20	27	55	38 n	8	52	19	2

A Table of the Longitudes, Latitudes, and Magnitudes of the most remarkable fixed Stars that the Moon can Eclipse, or make a near Appulse unto; exactly rectified to the beginning of the year 1790.

Con.	Cha.	Long.	Lat.	Mag.	Con.	Cha.	Long.	Lat.	Mag.
		° ′ ″	° ′ ″				° ′ ″	° ′ ″	
♓	δ	♈11 13 11	2 9 44 n	4	♎	α	♏12 9 29	0 21 48 n	2
	ε	14 36 25	1 5 37 n	4		12	18 4 37	1 49 14 s	3
	ξ	16 56 25	0 13 17 s	4		γ	22 12 9	4 24 42 n	3
♈	δ	♉17 54 44	1 48 7 n	4		β	24 26 33	4 2 52 n	4
♉	η	27 3 44	4 1 36 n	3			24 49 47	0 1 3 n	4
	γ	♊ 2 52 0	5 45 30 s	3			26 56 12	3 29 24 n	4
	ε	5 31 37	2 35 37 s	3		λ	27 32 46	0 6 53 n	4
	α	6 51 20	5 29 2 s	1	♏	δ	29 38 28	1 37 17 s	3
	β	19 38 37	5 21 59 n	2		π	♐ 0 0 35	5 26 15 s	3
	ζ	21 51 15	2 13 29 s	3		β	0 15 33	1 2 18 s	2
♊	η	♋ 0 30 37	0 55 4 s	4		γ	1 42 58	1 39 58 s	4
	μ	2 22 2	0 50 34 s	3		σ	4 52 13	4 0 23 s	4
	γ	5 10 20	6 46 12 s	2		π	6 49 58	4 32 27 s	3
	ε	7 0 30	2 2 28 n	3		τ	8 31 42	6 5 21 s	4
	δ	25 35 29	0 12 19 s	3	♐	γ	28 20 34	6 56 48 s	3
	β	20 19 34	6 40 4 n	1		μ	♑ 0 16 58	2 22 24 n	4
♋	γ	♌ 4 36 51	3 10 22 n	4		λ	3 23 31	2 5 31 s	4
	δ	5 47 9	0 4 13 n	4		φ	7 14 44	3 55 22 s	3
	ξ	18 43 23	3 1 57 s	4		π	9 27 17	3 24 55 s	3
	o	21 19 33	3 46 1 s	4			11 54 32	5 2 33 s	3
	π	24 58 23	4 51 9 n	4		o	12 3 36	0 53 36 n	3
	α	26 54 49	0 27 27 n	1		π	13 19 21	1 28 7 n	4
	ρ	♍ 3 27 25	0 8 29 n	4	♑	β	♒ 1 6 55	4 36 46 n	3
	τ	18 34 47	0 31 29 s	4		ε	17 16 4	4 57 31 s	4
	υ	22 6 32	3 2 51 s	4		γ	18 50 53	2 32 6 s	4
♍	β	24 10 47	0 41 36 n	3		δ	20 36 5	2 33 40 n	3
	♎	0 26 10	5 4 42 n	3		ι	25 47 17	2 3 47 s	4
	η	1 54 16	1 22 24 n	3		θ	♓ 0 19 42	2 43 22 n	4
	γ	7 14 41	2 48 57 n	3		λ	8 38 47	0 22 57 n	4
	α	20 54 53	2 2 11 s	1		o	14 12 31	1 2 8 s	4

This table shewing the mean longitudes of 60 stars to the beginning of the year 1790, their mean longitudes for any other time may be found if 50¼ seconds be added for each succeeding, and subtracted for each preceding year, and proportionably for a part of a year. Thus, to find the longitude of the first star ♓ δ, or δ piscium, for Feb. 15, 1792, or 2 years and one eighth after the tabular time; here 2⅛ times 50¼ sec. make 1′ 47″, which being added to the tabular longitude, gives ♈ 11° 14′ 58″ for the longitude required at the given time.——The latitudes vary not.

A Tab
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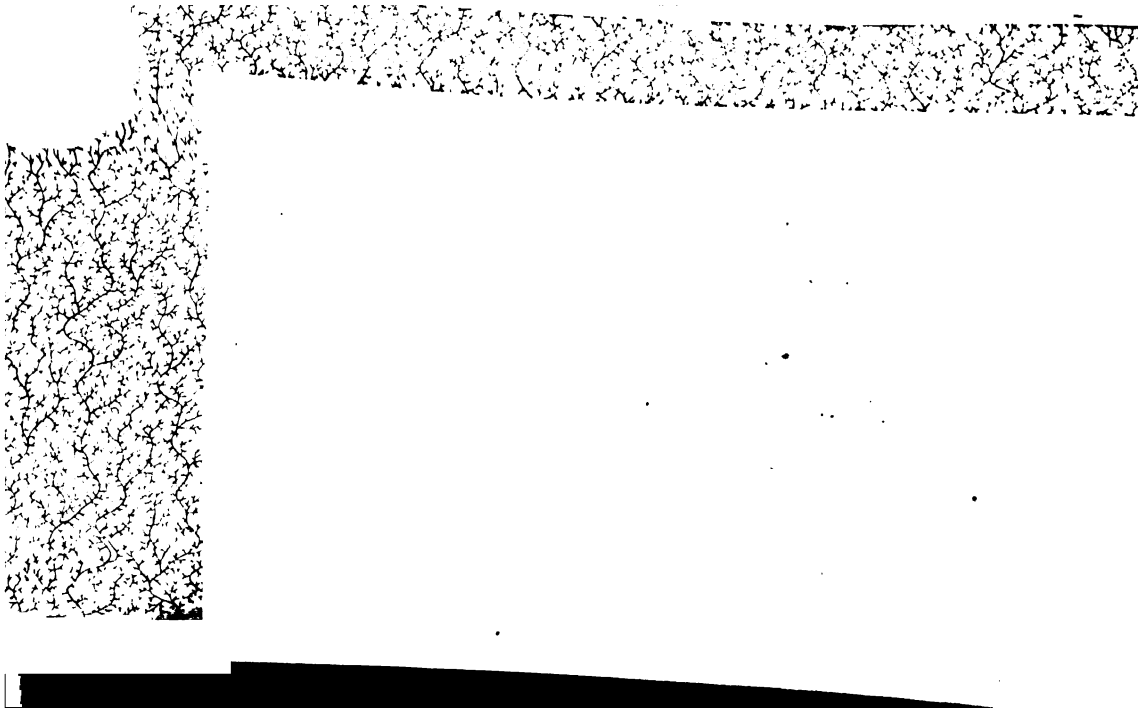
Pole star,
Andromec
Andromec
Ram's fol.
Whale's ja
Medusa's h
Persent's ri
Brightest of
Bull's south
Auriga's lef
Orion's left
Bull's north
Orion's left
Orion's girdle
Orion's right
In the great I
Head of the 1
In the less Dog
Head of the 2d
Hydra's heart,
Lyon's heart, F
Great Bear, Lo
Great Bear, Up.
Lion's tail, Den
Great Bear, 1st in
Virgins's spike
Dragon's tail
Bootes, Arcturus
Libra, Southern S
Libra, Northern S
Bright star in the N
Scorpion's heart, A
Hercules's head, R
Head of Serpentariu
Dragon's head, Rast
Bright star in the He
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Mouth of south Fish,
egasus's wing, Mark
ndromeda's head